The most current laboratory reference ranges are included in the laboratory report from the LIS. Laboratory testing information is also available on the Laboratory Guide to Services Website, https://clinicallabs.osume.edu Take Accessera apple and laboratory found SIGSTREC Cincul disabarators. Plos incidents Polina Core Laboratory, 2001 Polina Pore, Inconstitut Carel Stati 1500, Columba OH 43202 Accessera Laboratory, 2001 Polina Pore, Inconstitut Carel Stati 1500, Columba OH 43202 Mordoner Laboratory, Let Ti Meerdeuw Medical Plaza Toury, 2000 Nenny R.C. (chinator OH 4321) Clinical Laboratory, China Carel Stati 1500, Avano, Calebra OH 43201 Clinical Laboratory, China Carel Stati 1500, Avano, Calebra OH 43201

				Clinical Laboratories (UH):	entangy River Rd Rm 2030, Columbus C 410 West 10th Avenue, Columbus OH	43210			
Analyte	Synonym	Methodology / Reaction Type	Instrument or Kit	Clinical Laboratories (UHI Units	E): 181 Taylor Avenue, Columbus OH 4 Reference Ranges	3203 Critical Values	Source of Reference Range	Technical Range / AMR	Reportable Range / CRR
Amaryte	Synonym	Calculation of the expression that	Manufacturer	Cinti	Reference Ranges	Cinca vancs		recunical Range / Asiac	Reportable Range / CRR
Base Excess	Base Excess, Base Deficit	approximates the amount of acid or base required to titrate one liter of blood back to a normal pH of 7.40.	Radiometer	mmol/L	-3.0 to + 3.0	N/A	Contemporary Practice in Clinical Chemistry 3rd Edition 2016. Chapter 32. Table 32-1 p450 Arterial: Blood Gases and Critical Care	-30.0 - 30.0	-30.0 - 30.0
нсоз	Bicarbonate, CO2 Whole Blood	Calculation	Radiometer	mmol/L	Arterial: >30 Days: 22-28	N/A	Testing Physiology, Clinical Interpretations, and Laboratory Applications. 3rd Edition, 2021 (p.3).	Calculation	Calculation
					Venous: 22-29 1+ years:	>1 year: <50 and >400	Venous: Clinical Guide to Laboratory Tests 3rd Edition. Tietz. 1995. Clinical Guide to Laboratory Tests, 3rd		
Glucose, Whole Blood	Whole Blood Glucose	Amperometric	Radiometer	mg/dL	70-99 >18 years	<1 year: <40 and >200	Edition Tietz, 1995; Pediatric Reference Ranges, Soldin, 1999 Derived from total hemoglobin reference	1-1030	1-1030
Hematocrit (Calculated)	N/A	Calculation	Radiometer	%	Male: 40.2-50.4 Female: 34.2-45.6	N/A ≥12y:	interval. ABL 800 FLEX Reference Manual, 2008.	Calculation	Calculation
Total Hemoglobin, Whole Blood	N/A	Cooximetry	Radiometer	g/dL	>18 years <u>Male</u> : 13.4-16.8 <u>Female</u> : 11.4-15.2	<7.0 and >22.0 8d-12y: <8.0 and >22.0 0d-7d: <11.0 and >22.0	OSU Internal Normal Range Study, October 2018	4.8-23.5	4.8-23.5
Ionized Calcium, Whole Blood	ICA	Potentiometric	Radiometer	mg/dL	4.60-5.30	<3.40 and >6.20	Blood Gases and Critical Care Testing Physiology, Clinical Interpretations, and Laboratory Applications. 3rd Edition, 2021 (p.102)	1.00-13.00	1.00-13.00
Ionized Calcium, Serum	LAB54	Potentiometric	Radiometer	mg/dL	4.60-5.30	<3.40 and >6.20	-Blood Gases and Critical Care Testing Physiology, Clinical Interpretations, and Laboratory Applications. 3rd Edition, 2021 (p.102)	1.00-13.00	1.00-13.00
Ionized Calcium (CRRT)	ICACRT	Potentiometric	Radiometer	mg/dL	1.00-2.00	N/A	Email_ICA CRRT RR Physician Established	1.00-13.00	1.00-13.00
Lactate, Whole Blood Lactate, Blood	Lactic Acid	Amperometric	Radiometer	mmol/L	Adult: 0.5 - 1.6	25.0	ABL 800 Flex Reference Manual, 2008	0.0-30.0	0.0-30.0
sO2	sO2	Visible absorption spectroscopy	Radiometer	%	Arterial 0-365 days: 40-90 >1 year: 94-98	N/A	Arterial: Clinical Guide to Laboratory Tests, 3rd Edition, Tietz, 1995 Venous: Blood Gas O2Sat: Radiometer Bulletin	5-100	5-100
pCO2	N/A	Potentiometric	Radiometer	mmHg	Venous: 70.80 >31 days Arterial: 32.48 Venous: 36.52	Arterial: <20 and >65 Venous: <24 and >64	No: 44 Compendium of reference internals: Clinical Guide to Laboratory Tests, Tietz, 1995 & Fundamentals of Clinical Chem, 1987 / Venous: Respirology. 2014 Feb; 19(2):168-75, doi:10.1111/resp.122225. Pub 2014	5-115	5-115
pH	N/A	Potentiometric	Radiometer	pH	>31 days Arterial: 7.35-7.45	Arterial: <7.20 and >7.55 Venous:	Jan 3. Clinical Guide to Laboratory Tests Tietz 3rd Edition, 1995.	6.80-8.00	6.80-8.00
					<u>Venous:</u> 7.32-7.43 <u>Arterial:</u> 83-108	<7.17 and >7.52 Arterial: ≤44	Arterial: Clinical Guide to Laboratory Tests, Tietz 3rd Edition, 1995 & Fundamentals of Clinical Chem, 1987 Venous: Respirology. 2014		
pO2	N/A	Amperometric	Radiometer	mmHg	Venous: Venous pO2 is not recommended for the evaluation of oxygen status, clinical correlation is recommended	Venous: N/A	Feb;19(2):168-75, doi:10.11111/resp.122225. Pub 2014 Jan 3. © 2012 Radiometer Medical ApS. All rights reserved. 995-950. 201206R	0-700	0-700
Potassium, Whole Blood	Whole Blood Potassium	Potentiometric	Radiometer	mmol/L	18+ years: 3.5-5.0	<3.0 and >6.0 <1 year: <3.0 and >7.0	Clinical Guide to Laboratory Tests, Tietz 3rd Edition, 1995 Blood Gases and Critical Care Testing	1.0-14.0	1.0-14.0
Sodium, Whole Blood	Whole Blood Sodium	Potentiometric	Radiometer	mmol/L	1+ years: 135-145	<125 and >160	Physiology, Clinical Interpretations, and Laboratory Applications. 3rd Edition, 2021 (p.165).	80-175	80-175
Carboxyhemoglobin Methemoglobin	Carboxyhemoglobin Methemoglobin Oxyhemoglobin	Cooximetry Cooximetry Cooximetry	Radiometer Radiometer Radiometer	% %	≤1.5 ≤1.5 Adult: 94-98	N/A N/A N/A	ABL 800 Flex Reference Manual 2008 ABL 800 Flex Reference Manual 2008	0.0-50.0 0.0-30.0 0-100	0.0-50.0 0.0-30.0 0-100
Oxyhemoglobin pH, Pleural Fluid	Oxyhemoglobin Fluid pH (by blood gas analyzer)	Potentiometric	Radiometer	pH	Adult: 94-98 N/A	N/A N/A	ABL 800 Flex Reference Manual 2008 N/A	6.80-8.00	6.80-8.00
pCO2 Cord Blood Gas	pCO2, Cord Blood Arterial pCO2, Cord Blood Venous	Potentiometric	Radiometer	mmHg	Cord Blood Arterial: 41-58 Cord Blood Venous: 33-44	N/A	Clinical Guide to Laboratory Tests, Tietz 3rd Edition, 1995	5-115	5-115
pH Cord Blood Gas	pH, Cord Blood Arterial pH, Cord Blood Venous	Potentiometric	Radiometer	pH	Cord Blood Arterial: 7.23-7.33 Cord Blood Venous: 7.30-7.40	N/A	Clinical Guide to Laboratory Tests, Tietz 3rd Edition, 1995	6.80-8.00	6.80+8.00
pO2 Cord Blood Gas	pO2, Cord Blood Arterial pO2, Cord Blood Venous	Amperometric	Radiometer	mmHg	Cord Blood <u>Arterial</u> : 12-24 Cord Blood <u>Venous</u> : 23-35	N/A	Clinical Guide to Laboratory Tests, Tietz 3rd Edition, 1995	0-700	0-700
sO2 Cord Blood Gas	sO2, Cord Blood Arterial sO2, Cord Blood Venous	Visible absorption spectroscopy	Radiometer	%	Cord Blood Arterial: 3-69 Cord Blood Venous: 16-83 Cord Blood Arterial:	N/A	Brit Journ Obst Gyn 8-2000 Vol 107 pp 987-994 Cord Bld O2 SAT in vigorous infants at birth: What is normal?	5-100	5-100
Bicarbonate (HCO ₃ ') Cord Blood Gas	Bicarbonate, Cord Blood Arterial Bicarbonate, Cord Blood Venous	Calculation	Radiometer	mmol/L	20-25 Cord Blood Venous: 16-25	N/A	Clinical Guide to Laboratory Tests, Tietz 3rd Edition, 1995	Calculation	Calculation
Base Excess Cord Blood Gas	Base Excess/Deficit, Cord Blood Arterial Base Excess/Deficit, Cord Blood Venous	Calculation of the expression that approximates the amount of acid or base required to titrate one liter of blood back to a normal pH of 7.40.	Radiometer	mmol/L	Cord Blood <u>Arterial</u> : -3.0-3.0 Cord Blood <u>Venous</u> : -2.0-2.0	N/A	Email_Cord blood Gas RR Physician Established Base Excess_11-2020	-30.0 - 30.0	-30.0 - 30.0
Acetaminophen Level	Tylenol, Datril, Tempra, Liquiprin, Tenlap	Enzyme Immunoassay	Beckman	meg/mL	Therapeutic: 10.0 - 32.0	>150.0 after 4 hours of ingestion	Applied Pharmacokinetics: Principles of Therapeutic Drug Monitoring, 2nd Edition 2002 Applied Therapeutics, Inc. and Micromedex On OSU Intranet.	10.0-200.0	10.0-600.0
ALT	SGPT. Alanine Aminotransferase	Transfer of the amino group from alamine to α-exoglutarate to form provuse and glutamate. The pyruvate enters a lactate dehydrogenase (LI) entalydrogenase (Beckman	U/L	18+ years: Fermic: 9-48 Male: 10-52	N/A	OSUWMC Reference Range Study effective 12.11.2013; verified by OSUWMC Reference Interval Study 2021. Pediatric Reference Range, Soldin, 1999 (Lower and orference range medified types with the linear limits.)	3-500	3-25,000
Albumin	N/A	This Albumin method is a modification of the Dournas and Rodiley procedures utilizing a different buffering system. At Jul 4.2, brannecreal green reacts with complex. The abovatance of the albumin-BGG complex is measured behovematically (600/8000mm) and is proportional to the albumin concentration in the sample.	Beckman	gʻdL	19+ yean: 3.5-5.0	N/A	Tietz 2nd Edition referenced by Beckman Coulter IFU for recumbant adult and verified by OSUWAC Reference Interval Study 2021.	1.5-6.0	1.5-18.0

							1	ı	1
Albumin, Body Fluid	N/A	See ALB	Beckman	gʻdL	Elegats Serum pleural fluid albumin gradients of 51.2 g/dL are consistent with transadates. Perintent's Serum-societe albumin gradient (SAMG) of 1.3 g/dL or greater suggests portal hypertension. Perinadial' The reference range has not been established for this fluid specimen. The fluid results should be compared with the concentration in calinical context for interpretation.	N/A	Pleumi: Both, B.J., et al. Chest, Vol 98, 546-549, 1990. Peritoneal: Runyon, B.A. Ann Intern Med. 1992;117:215-220.	15-60	1.5-6.0
Albumin, CSF	Microalbumin, CSF	Turbidimetry	Beckman	mg/dL	10.0-30.0	N/A	CCLM Vol 54 issue 2 p285-292 Feb 2016	1.0-45.0	1.0-450.0
Alcohol (Ethanol), Blood	Serum Alcohol	Based on an enzymatic reaction. A Rengent I contains the buffering dehydrogenase (ADII), the coenzyme incottnamide adenine dimelectide (NADI), buffer, proservatives, and stabilizers. The ADII catalyzes the stabilizers. The ADII catalyzes the saccatalehyde. During this reaction, NAD is reduced to NADII. The increase in absorbance at 340 cm is proportional to the concentration of already and the saccatalytic and the saccatal stabilizers. The concentration of	Beckman	mg/dL	<10	2300	N/A	10-669	10-600
Alk Phosphutase	ALP	This ALP procedure is based on the method developed by Bowers and McComb2 and has been formulated as recommended by the ANC2 and BFCG. Alkaline phosphatase activity is determined by measuring the rate of conversion of p-nitro-phenylphosphate (pNPP) in the presence of 2-amino-2-methyl-1-propanol (AMP) at pH 10.4.	Beekman	U/L	19+ yean: 32-126	N/A	OSLWMC Reference Range Study effective 12.11.2013; Verified by OSUWMC Reference Intereal Study 2021. Pediatric Reference Ranges, Soldin, 1999 Synchron Performance Verification Manual A22219	5-1,500	5-15,000
Alpha 1 Antitrypsin	N/A	Turbidimetry	Beckman	mg/dL	84-218	N/A	Package Insert. Verified by OSUWMC Reference Interval Study 2021.	30-500	30-5,000
Ammonia	Ammonia, Venous	Direct enzymatic procedure based on the following reaction sequence: Glatamate dehydrogenase (GLDI) and the schedylatame + NADI reagent contains LDI in access, to explify reduce endogenous pyrusute to that it does not interfere with the soary system: reagent also interfere with the sawsy system: reagent also incorporates a patiented adubilization process which renders the reagent stable in the liquid phase.	Beckman	umol/L	6-47	N/A	Package Insert	10-669	10-5,000
Ammonia, Arterial	N/A	Drect enzymatic procedure based on the following reaction sequence: NIM + a sketoghutzure + NADH — Clutamate + NAD + H2O. The reagast contains LDH in excess, to rapidly reduce redogenous provade so that it does not interfere with the assey system reagent also made to the control of the con	Beekman	umol/L	6-47	N/A	Package Insert	10-600	10-3,000
Amylase	N/A	The release of 2-chloro-4- nitrophenol (CNP) from the substrate and the resulting absorbance increase per minute is directly related to the Amylase activity in the sample. The resulting increase in absorbance and be measured spectrophotometrically at 410/480nm.	Beckman	U/L	19+ years: 20-103	0-18 yeans: ≥400 19+ yeans: ≥500	Prior study verified by OSUWMC Reference Interval Study 2021.	10-2,000	10-10,000
Amylase, 24 Hour Urine	N/A	See Amylase	Beckman	U/24 hrs	24 hour sample: 0-400	N/A	OSU validated 48 outpatients from Family Practice. See Method Validation	N/A (calculation)	N/A (calculation)
Amylase, Body Fluid	NIA	See Amylase	Beckman	UIL	Pleural: Pleural fluid rich in amylane (fluid amylane to serum/plana) and the pleural pleural fluid rich in amylane (fluid amylane to serum/plana) and and anylane to serum/plana and anylane to serum plana and anylane and anylane and anylane and anylane and anylane and anylane a	NA	binders. Plearal: State of the art. The plears Sahn SA Am Rev Respir Dis. 1988;138(1):184. Pancreatic; eye Elis Cult; et al. Am J Gaurceancevol. 200;113:464-479.	(vancaumon)	10-100,000
Amylase, Urine Random	N/A	See Amylase	Beckman	U/L	None established	N/A	N/A	10-1,500	10-75,000
Anion Gap	Gap	Calculation: ANION GAP=(NA+K)- (CL+CO2)	N/A	mmol/L	7-17	N/A	OSUWMC Study 2015	N/A	N/A
Anti Streptolysin O	N/A	Turbidimetry	Beckman	IU/mL	<250	N/A	Package Insert. Verified by OSUWMC Reference Interval Study 2021.	100-1,000	100-10,000
AST	SGOT, Aspartate Aminotransferase	Catalyzes the transamination of aspartate and e-wooglutante, forming L-glutamate and collectate. The oxalacetate is then reduced to L-malate by malate deplyangenase, while NADH is simultaneously converted to NAD+. The decrease in absorbance due to the consumption of NADH is measured at 340 mm and is proportional to the AST activity in the sample.	Beckman	U/L	19+ years: 10-39	N/A	Verified by OSUWMC Reference Interval Study 2021.	3-1,000	3-50,000
Beta HCG Quant, Blood	Quantitative Scrum Pregnancy Test	Two-site Sardwich Imramossasy Chemituminescent Lateral flow test using a monoclonal	Stemens	mlUmL	Non-prepage 1-00 Postmenopoussil - 1-00 Postmenopoussil - 1-00 2-4 Weeke 39.1 - 8.388.0 5-6 Weeke 86.10 - 88.769 86.10 - 88.769 8.856.0 - 2.189.85.0 8.856.0 - 2.189.85.0 8.10 Weeke 18.700 - 2.444.67.0 10.12 Weeke 23.44.3 - 1.818.99.0 13.27 Weeke 6.03.0 - 97.171.0 28.40 Weeke 4.000 - 2.484.6	NA	Advia Centaur HICO Pachage Insert 10634917_EN Rev. F. 2011-04	2.6-1,000.0	2.6-128.000,000.0
B-hCG Qualitative, Blood	Serum Pregnancy Test	antibody specific to the beta subunit of hCG.	Alere	Qualitative	Non-pregnant = Negative Pregnant = Positive	N/A	Package Insert	Positive Negative	Positive Negative
	·	· · · · · · · · · · · · · · · · · · ·	·		·	·	· · · · · · · · · · · · · · · · · · ·	·	

Beta-Hydroxybutyrate	Beta Hydroxybutyrate	D-3 Hydroxybutyrate in the presence of NAD gets converted to acetoacetate and NADH, NADH produced reacts with INT in the presence of diaphorase to produce color at 505nm. Absorbance is proportional to B+ bydroxybutyrate in sample.	Beckman	mmol/L	<0.27	≥1.20	Stanbio Package Insert and verified by OSUWMC Reference Interval Study 2021.	0.10-8.00	0.10-24.00
Bicarbonate, Fluid	FCO2, CO2 Fluid	See CO2	Beckman	mmol/L	Stool: The reference range has not been established for this fluid specimen. The fluid results should be compared with the concentration in serum/plasma or integrated into the clinical context for interpretation.	N/A	N/A	5-45	5-90
	Bilirubin, Total (Neonatal)	A stabilized diazonium salt, 3,5- dichlorophenyldiazonium tetrafluoroborate (DPD), reacts with bilirubin to form azobilirubin which absorbs at 570/660 nm.			0 Days: 1.4-8.7 1 Day: 3.4-11.5 3 Days: 1.5-12.0 5 Days: 0.3-1.2 1 Year: <1.5	<1 year: ≥14.0	Clinical Guide to Laboratory Tests, Kaplin, 2003	0.1-30.0	0.1-90.0
Bilirubin - Baby	Bilirubin, Direct (Neonatal)	absorbs at 7/10/600 nm. Direct (conjugated) bilirubin couples directly with a diazoniam salt of 3,5-dichloroamiline (DPD) in an acid medium to Som azobilirubin. The direct bilirubin in serum is directly proportional to the color development of azobilirubin which is measured bichromatically at 570/660 nm.	Beekman	mg/dL	1 Year < 1.5 All: < 0.3	N/A	Clinical Guide to Laboratory Tests, Tietz, 1995	0.1-10.0	0.1-20.0
Bilirubia Direct	BILD	Direct (conjugated) bilirubin couples directly with a diazoniam salt of 3,5- dichloroamiline (DPD) in an acid medium to form azobilirubin. The direct bilirubin in serum is directly proportional to the color development of azobilirubin which is measured bichromatically at 570/660 nm.	Beckman	mg/dL	All:<0.3	N/A	Clinical Guide to Laboratory Tests, Tietz 1995, werified by OSUWMC Reference Interval Study 2021.	0.1-10.0	0.1-20.0
Bilirubin Total	BILT	A stabilized diazonium salt, 3,5- dichlorophenyldiazonium tetrafluoroborate (DPD), reacts with bilirubin to form azobilirubin which absorbs at 570/660 nm.	Beckman	mg/dL	Adult: <1.5	N/A	Clinical Guide to Laboratory Tests, Tietz 1995, verified by OSUWMC Reference Interval Study 2021.	0.1-30.0	0.1-90.0
Bilirubin, Total, Fluid	FBILT	A stabilized diazonium salt, 3,5- dichlorophenyldiazonium tetrafluorobrate (DPD), reacts with bilirubin to form azobilirubin which absorbs at 570/660 nm.	Beckman	mg/dL	Pertinenes! Pertineneal bilimbin concentrations greater than that of serum'plasma may suggest bile within the abdomen. Drainage: Drain fluid bilirubin concentration-to-serum'plasma bilirubin concentration ratios exceeding 5 indicates bile leakage	N/A	Peritoneal: Runyon BA J Clin Gastroenterol. 1987;9(5):543. Drain: Darvin. Gastrointest Endosc. 2010 Jan;71(1):99-104.	0.1-30.0	0.1-90.0
B-Type Natriuretic Peptide	BNP	Two site sandwich immunoussay using direct chemiluminescent technology which uses constant amounts of two monoclonal antibodies.	Siemens	pg/ml.	All: 0-100	N/A	Atellica IM BNP Package Insert 11202199_EN Rev. 05-2020-11	2-4,500	2-4,500
BUN	N/A	Urea is hydrolyzed enzymatically by urease to yield ammonis and carbon doxistic. The ammonis and or condition of the ammonis and the condition of the condition	Beckman	mg/dL	All: 7-25	≥101	Beckman Coulter IFU for serum verified by OSUWMC Reference Interval Study 2021.	2-130	2-650
C Reactive Protein	N/A	Measurement of the rate of decrease in light intensity transmitted (increase in absorbance) through particles suspended in solution is the result of complexes formed during	Beckman	mg/L	All: <10.00	N/A	Clinical Guide to Laboratory Tests, Tietz, 2005; Verified by OSUWMC Reference Interval Study 2021.	0.20-80.00	0.20-480.00
C Reactive Protein For Cardiac Risk	CRPR, CRP High Sensitivity	the immunological reaction between the CRP of the patient serum and rabbit anti-CRP-antibodies coated on latex particles.			All: Non-specific: >10.00 High Risk: >2.00 Low Risk: <2.00		2019 ACC/AHA Guideline on the Primary Prevention of Cardiovascular Disease. Circulation. 2019 Sep 10;140(11):e596-e646.		
C3 Complement	C3	Turbidimetry	Beckman	mg/dL	87-200	N/A	Package Insert. Verified by OSUWMC Reference Interval Study 2021.	15-500	15-1,500
C4 Complement	C4	Turbidimetry	Beckman	mg/dL	18-52	N/A	Historic Reference Range. Verified by OSUWMC Reference Interval Study	8-150	8-450
CA 125	CA125N	Two-site sandwich immunoassay using direct chemiluminometric	Siemens	U/mL	All: ≤30	N/A	2021. Advia Centaur CA 125II Package Insert 128516 Rev. H. 2009-02	3-600	3-360,000
CA 15-3N	CA153N	technology Two-site Sandwich Immunoassay Chemiluminescent	Siemens	U/mL	0.0-32.4 for both female and male	N/A	Atellica IM CA 15-3 Package Insert 11206285 EN Rev. 04, 2020-03	3.0-200.0	3.0-200,000.0
CA 19-9	N/A	Two-site sandwich immunoassay using direct chemiluminometric technology	Siemens	U/mL	All: ≤37.00	N/A	Clinical Guide to Laboratory Tests, Tietz, 1995; see Source link for additional Reference Range information	15.00-700.00	15.00-33,600,000.00
CA27.29 (Breast Carc Assoc Ag)	BR	Competitive immunoassay using direct chemiluminescent technology	Siemens	U/mL	All: ≤38.6	N/A	Advia Centaur, BR (CA 27.29) Package Insert 116751 Rev. J, 2009-07	9.0-450.0	9.0-90,000.0
Calcium	CA	Calcium ions (Ca2+) reacting with Arsenazo III (2,2+11,8-Dihydroxy- 3,6-disulphonaphthytene-2,7-bisazo) bishezencena-sonic acid) to form an intense purple colored complex. Absorbance of the Ca-Arsenazo III complex is measured bishromatically at 660/700 nm.	Beckman	mg/dL	>1 year: 8.6-10.5	<6.0 and >12.0	Established by OSUWMC Reference Interval Study 2013, verified by OSUWMC Reference Interval study 2021.	4.0-18.0	4.0-18.0
Calcium, Urine 24HR	N/A	See Calcium	Beckman	mg/24 hours	100.0-300.0	N/A	N/A	N/A (Calculation)	N/A (Calculation)
Calcium/Creat Ratio, Random Urine	CALCR	See Calcium / Creatinine	Beckman	Ca mg/Creat mg	0-6 months: <0.86 7-18 months: <0.60 19 months-2 years: <0.42 >3years: <0.22	N/A	Clinical Guide to Laboratory Tests, Tietz, 1995	N/A (Calculation)	N/A (Calculation)
Calculated LDL Cholesterol	LDL, Low-Density Lipoprotein Cholesterol	Calculation: CHOL - [(TRIG/5)+HDL]	N/A	mg/dL	Adult optimal : <100	N/A	National Cholesterol Education Project (NCEP) Adult Treatment Protocol (ATP- III) (Circulation, 2002;106:3143-3421)	N/A	N/A
Carbamazepine Total Level	CARB	Competition between drug in the sample and drug labeled with the enzyme glacose-6-phosphate debydrogenase (G6PDH) for antibody binding sites. Enzyme activity decreases upon binding to the antibody, so the drug concentration in the sample con- tractive cryme convers conditred incommande adenine dissociation (NAD) is NADH, resulting in an absorbance change.	Beckman	maginil.	All: 4.0-12.0 (Therapeutic Range)	>15.0	Applied Clinical Pharmacokinetics, 2001 Micromedes, OSU Intranet	2.0-20.0	2.0-100.0
							Clinical Guide to Laboratory Tests,		
CEA	N/A	Two-site Sandwich Immunoassay Chemiluminescent	Siemens	ng/mL	All: ≤5.0	N/A	Tietz, 1995. See source link for additional Reference Range information.	2.0-100.0	2.0-8,000,000.0
CEA CEA, Fluid	N/A FCEA	Two-site Sandwich Immunoassay Chemiluminescent Two-site Sandwich Immunoassay Chemiluminescent	Siemens Siemens	ng/mL	All: ≤5.0 The reference range and other method performance specifications have not been established for this fluid specimen.	N/A N/A	hetz, 1995. See source link for additional Reference Range information. Clinical Guide to Laboratory Tests, Tietz, 1995; see Source link for additional Reference Range information	2.0-100.0	2.0-8,000,000.0

Chloride	CL	The ISE module for Na*, K*, and Cl- enploys cown ether membrane electrodes for sodium and potassium and a molecular oriented PVC membrane for chloride that are specific for each ion of interest in the sample. An electrical potential is developed according to the Nernat Eguation for a specific ion. When compared to the Internal Reference Solution, this electrical potential is translated into voltage and then into the ion concentration of the sample.	Beckman	nenol/L	18+ years: 98-108	<75 and >130	Established by OSUWMC Reference Interval Study 2013, verified by OSUWMC Reference Interval study 2021	50-200	56-200
Chloride, 24 Hr Urine	UCL, 24	See Chloride	Beckman	mmol/24hrs	110-250	N/A	Clinical Guide to Laboratory Tests, Tietz, 1995	N/A (Calculation)	N/A (Calculation)
Chloride, Fluid	FCL	See Chloride	Beckman	mmol/L	The reference range has not been established for this fluid specimen. The fluid results should be compared with the concentration in serum/plasma or integrated into the	N/A	N/A	50-200	50-200
Chloride. Random Urine	UCLR	See Chloride	Beckman	mmol/L	clinical context for interoretation. Random: None established	N/A	N/A	15-400	15-400
Cholesterol Total	CHOL	Cholesterol esters in serum are hydrolyzed by cholesterol esterase (CHE). The fire cholesterol estrases (CHE) the fire cholesterol oxidase (CHO) to cholest—en-3-one with the similations production of hydrogan peroxide (H202), which oxadatively couples with 4-aminoantipyrine and phenol in the presence of peroxidase to yield a chromophore. The red quinomenime dye formed can be measured spectrophotometrically at 3 db/600 mm as an increase in bloochance.	Beckman	mgidL	Desirable: <200 Borderline: 200.239 High: >240	N∕A	National Cholesterol Education Project (NCEP) Adult Treatment Protocol (ATP) III) (Circulation, 2002;106:3143-3421)	25-700	25-2,100
Cholesterol, Body Fluid	FCHOL	See Cholesterol	Beckman	mg/dL	Pleural: Pleural fluid cholesterol concentrations > 200 mg/dL are associated with pseudochylous effusions. Peritoneal: Peritoneal fluid cholesterol concentrations greater than 32-70 mg/dL may suggest malionant accides.	N/A	Pleural: Hooper C, et al. Thorax. 2010 Aug65-Suppl2;ii4-17. McGrath, et al. Int J Clin Pract. 2009 Nov;63(11):1653- 9. Peritoneal: Block, et al. Crit Rev Clin Lab Sci. 2013:50:107-124.	25-700	25-700
ск	Creatine Kinase, CKB	of a phosphate group from creatine phosphate to (ATP) to give creatine phosphate to (ATP) to give creatine and (ATP) as potential to the phosphate of the phosp	Beckman	UL	193 years: Female: 30-184 Male: 30-220	2500	Established by OSUWMC Reference Interval Study 2013, wrifted by OSUWMC Reference Interval study 2021	10-2,000	10-200,000
CO2 Total	CO2	Bicarbonae (IRCOS [*]) and phosphomologyravide (PEP) are converted to collocate and phosphate in the reaction catalyzed pulsphomologyravide cellular phosphomologyravide cellular phosphomologyravide cellular phosphomologyravide cellular phosphomologyravide (PEPC). Makase dehydrogenase conductorate to making with the concomitant oxidation of reduction confloating to make with the concomitant oxidation of reduction (PAGID). This conduction of PAGID in the confloating of the confloating o	Beckman	menol I.	3+ years: 21-31	<10 and >40	Beckman Coulter IFU verified by OSUWMC Reference Interval Study 2021.	5-45	5-45
Cortisol	ACTH Stimulation, CORT	Competitive immunoassay using direct chemiluminescent technology	Siemens	mcg/dL	All: 3.09-22.40	N/A	Atellica IM Cortisol Package Insert 11200393_EN Rev. 03-2020-03	0.50-75.00	0.50-2,400.00
Creatinine	CREA	technology This Creatinine procedure is a kinetic modification of the Jaffe procedure, in which creatinine reacts with picie acid at alkaline pH to form a yellow orange complex. The rate of change in aboorbance at \$20,000 mm is proportional to the creatinine concentration in the sample.	Beckman	mg/dL	19+ yearx Female: 0.50 - 1.20 Male: 0.70-1.30	>10.00	OSUWMC Reference Range Study effective 12.11.2013; verified by OSUWMC Reference Interval Study 2021. Pediatris Reference Ranges, Soldin, 1999	0.20-25.00	0.20-25.00
Creatinine, 24 HR Urine	UCRE, 24	See Creatinine	Beckman	g/24 hrs	18+ years male: 0.80-2.00 18+ years female: 0.60-1.80	N/A	NKDEP traceable :Clinical Guide to Laboratory Tests, Tietz, 1995; Pediatric Reference Ranges, Soldin, 1999	N/A (Calculation)	N/A (Calculation)
Creatinine, 8 Hour Urine Creatinine Clearance, 8 Hour Urine	SUCR	See Creatinine Calculation Urine Creatinine (mg/dL) X Urine Volume (ml) Serum/Plasma Creatinine (mg/dL) X Time (min) **scrum/Plasma creatinine (CREA) must be collected within #/24 hours friouth the time follection for the calculation to work in LIS	Beckman	mg/dL mL/Min	NA	N/A	N/A	1.00-300.00 N/A	1.00-900.00
Creatinine, Body Fluid Creatinine, Random Urine	FLCREA UCRER	See Creatinine See Creatinine	Beckman Beckman	mgidL maidL	Pertioneal and drainage: Fluid creatinine concentrations that are greater than serum/plasms creatinine concentrations may imply intraperitoneal leakage of urine outside of the urinary tract. Pleural: Pleural fluid creatinine to serum/plasma creatinine concentration ratio > 1 suggests unitableses.	N/A N/A	Manahan KJ, et al. Obstet Gynecol. 1999 May-93(5 Pt 1):780-2. Pleural: Toubes, et al. J. Thorac Dis. 2017;9(5):1209-1218.	0.20-25.00	0.20-25.00
Digoxin Level	Lanoxin, DIG	Enzyme Immunoassay	Beckman	ng/mL	N/A 0.5-1.0 (Therapeutic Range)	≥2.1	Applied Clinical Pharmacokinetics, Bauer, 2001	0.3-5.0	0.3-10.0
${ m cGFR}_{ m cr}$	Estimated glomerular filtration rate	(KND-FP 2021 Calculation, GFRer— 142 a min(Sect.) Ja n max(Sect.) 1, 1200 v 0.9938 Age x 1, 102 (if emails) (min section of the control of the control of the where x = 0.7 (females) or 0.30 (male) Sec = seum centainie in mg dil: divide by 88.4 for centainie in divide by 88.4 for centainie in divide the control of the control of the minimum of Sect. or 1.0 and "max(Sect., 1)" factor indicates the minimum of Sect. or 1.0 and "max(Sect., 1)" indicates the minimum of Sect. or 1.0 and	N/A	mL/min/1.73m ²	$\geq 60~\text{mL/min}^2 1.73 \text{m}^2$	N/A	KDIGO 2012 Clinical Practice Guidelines	N/A	$\leq 90~\mathrm{mL/min}/1.73\mathrm{m}^2$

Extradiol Enhanced	eF2	Competitive easy formst. The endogenous contended contained in a sample in released from his building proteins by a releasing agent. Then, a deep monoclosal and in-critative and a section and the same content of the same conte	Siemens	pg/ml.	Male: 19+ years: <11.8-39.8 Adult Femaly Follicular Phase: 19.5-14-02. 19.5-14-02. 10.3-35.6.7 Luteal Phase: 55.8-214.2 Pat Mempausal: <11.8-32.2	N/A	Advis Centaur, Enhanced Estradiol (eE2) Package Insert 10491467 Rev. C. 2010-09; Pediatric Reference Ranges, Soldin, 1999	11.8-3,000.0	11.8-150,000.0
Ferritin	FERIB	Two-site Sandwich Immunoassay Chemiluminescent	Siemens	ng/mL	Female 20+ years: 10.0-291.0 Male 20+ years:	N/A	Atellica IM Ferritin Package Insert 11200601_EN Rev. 03-2019-06; Pediatric Reference Ranges, Soldin,	0.9-1,650.0	0.9-1,650,000.0
Folate, Serum	FOLSB	Competitive immunoassay using direct chemiluminescent	Siemens	ng/mL	22.0-322.0 19+ years: >5.38	N/A	1999 Atellica IM Folate Package Insert 11200602_EN Rev. 04-2020-11; Pediatric Reference Ranges, Soldin,	0.56-24.00	0.56-960.00
		technology			Male: <18.1		1999		
FSH	Follicle stimulating hormone	Two-site sandwich immunoassay using direct chemiluminometric technology	Siemens	mIU/mL	Female, folliscular 2.5-10.2 Female, midcycle: 3.4-33.4 Female, Luteal: 1.5-9.1 Female, prognant: -0.3 Female, prognant: -0.3 Female, post-menopausal:	N/A	Atellica IM FSH Package Insert 11200384_EN Rev. 06-2020-09	0.3-200.0	0.3-6,400.0
GGT	Gamma Glutamyi Transferase	A modification of the Strasz procedure 2.3 GGT catalyzes the transfer of the gamma-glutamyl group from the substrate, gamma-glutamyl-3-carboxy-4-nitroanilide, to glyvylglycine, yielding 5-amino-2-nitrobenzoate. The change in absorbance at 401480 mm is due to the formation of 5-amino-2-nitrobenzoate and is directly proportional to the GGT activity in the sample.	Beekman	U/L	19+ years: 8-64	N/A	Beckman Coulter IFU verified by OSUMAC Reference Interval Study 2021 (lower and modified). Pediatric Reference Ranges, Soldin, 1999 (Lower end of reference range modified to agree with the linear limits).	3-1,200	3-6,000
Glacese	GLUC	Glacous is phosphosp plated by broadlance (IRI) in the presence of demonitor the phosphosp for the produce of demonitor the phosphose (APP) and amaginerium ions to produce glacous dephosphose (APP), Glacous-6-phosphose (APP), Glacous-6-phosphose (APP), Glacous-6-phosphose (APP), Glacous-6-phosphose (APP), Glacous-6-phosphosphose (APP), Glacous-6-phosphosphose (APP), Glacous-6-phosphosphose (APP), Glacous-6-phosphosphose (APP), Glacous-1-phosphosphosphose (APP), Glacous-1-phosphosphosphosphosphosphosphosphosphos	Beckman	mg dL	1+ years: 70-99 (fasting)	>1year: <50 and <100 <1 year: <40 and >200	ADA Standards October 2012. Clinical Guide to Laboratory Tosts, Tietz, 1995; Pediatric Reference Ranges, Soldin, 1999	10-869	10-2,400
Glacesse, Body Fluid	FGLUC	See Glacese	Beckman	mg/dL	Ammidric Ammistic fluid glucose concentrations: 10 mg/dl. are consistent with intra-ammistic inflammation in patients with prelabor reputure of membranes. Peritonnell' Peritonnell glucose concentrations >50 mg/dl. (2.8 mm/dl.) are consistent with apointaneous bacterial peritonisis and consistent with apointaneous bacterial peritonisis due to gut performation peritonisis due to gut performation peritonisis due to gut performation becoming patient peritonisis due to gut performation de patient peritonisis due to gut performation peritonisis due to gut peritonisis	N/A	Amnistic: Gonzalez-Bouquet, et al. J Matens Feral Med. Jul-Aug Pancrossic Synt. Curr, et al. Surgery, 2018 Mare 16(4):9000-605. Perioneal: Rumyon BA, Hoefs X. Heguisloy, 1985;5(2):237. Persandial: Bon-Brints, et al. Am. J Bergal Med. 2020. Bm. 394:64(2):1917. Symvisit: Margintal: Am. Am. 2007;297(13):1478-1488.	10-800	10-800
Glucose, CSF	CFG	See Glucose	Beckman	mg/dL	Other less common effusions All: 40-70	<30 and >300	Clinical Guide to Laboratory Tests, Tietz. 1995	10-800	10-800
Haptoglobin	HAP	Turbidimetry	Beckman	mg/dL	44-215	N/A	Package Insert. Verified by OSUWMC Reference Interval Study 2021.	30-400	30-1,200
hCG Qualitative, Urine	Urine Pregnancy Test	Lateral-flow test using a monoclonal antibody specific to the beta subunit	Alere	Qualitative	Non-pregnant = Negative	N/A	Package Insert	Positive	Positive
hCG, Quant (Tumor Marker)	HCGTM	of hCG. Two-site Sandwich Immunoassay Chemiluminescent	Siemens	mIU/mL	Pregnant = Positive <10.0	N/A	Advia Centaur tHCG Package Insert 10634917 EN Rev. F, 2011-04	Negative 2.6-1,000.0	Negative 2.6-128,000,000.0
IIDL Cholesterol	HDL.	In phase can, free chelscated in ansiltant plant can, free chelscated in a commund by chelscared existing and commund by chelscared existing can be considered by chelscared existing can be can be caused as colories and product. In phase two a unique determine stelection with the can be reasonable from BIAL thousands on benefand for BIAL chelscates to release first produced to sudate and a chromogen the colories of the colories	Beckman	mg/dL	20+ years: 240	N/A	National Cholesterol Education Project (NCEP) Adult Treatment Protocol (ATP III) (Circulation, 2002;106:3143-3421)	3-200	3.600
High-Sensitivity Troponin-I (Single Order) High-Sensitivity Troponin I	HSTI1, Troponin I, Trop I	Three-site sandwich immunoassay using direct chemiluminometric	Siemens	ng/L	Female: <34 Male: <53	≥3000 first time in 24 hours AND	Atellica IM TnIH Package Insert 11200498_EN Rev. 06, 2019-06	3-25,000	3-2,000,000
(Serial Order) Homocysteine	HST12, Troponin I, Trop I HOMCYS, HCY	technology Competitive immunoassay using direct chemiluminescent	Sim-	umol/L	All: 3.7-13.9		Atellica IM Homocysteine Package	0.5-65.0	0.5-130.0
		technology	Siemens		Adult 19-60Y:	N/A	Insert 10995362_EN Rev. 04-2021-03 Package Insert. Verified by OSUWMC		
IgA	Immunoglobulin A	Turbidimetry	Beckman	mg/dL	66-433 Adult 19-60Y:	N/A	Reference Interval Study 2021. OSUWMC Immunoglobulin Reference	10-700	10-14,000
IgG	Immunoglobulin G	Turbidimetry	Beckman	mg/dL	Adult 19-60Y: 600-1,714 Adult 19-60Y:	N/A	Range Study; Verified by OSUWMC Reference Interval Study 2021. Package Insert. Verified by OSUWMC	75-3,000	75-60,000
IgM	Immunoglobulin M	Turbidimetry	Beckman	mg/dL	Adult 19-60Y: 45-281	N/A	Package Insert. Verified by OSUWMC Reference Interval Study 2021.	20-500	20-50,000
Iron	N/A	TPIZ [2,4,6-Tri+(2-pyrishy).5- trizzino] as the chromogen.3 In an acidin medium, transferrin-bound iron dissociates into free ferric ions to iron dissociates into free ferric ions acid and scollium ascorbate reduce the ferric ions to the ferrous state. The ferrous stom there react with PTPZ to form a blue colored complex which can be measured bichromatically at 600 800 m. The increase in absorbance is directly proportional to the amount of transferrir bound iron present.	Beckman	meg dL	19+ years: 40-174	N/A	Established by OSUWMC Reference Interval Study 2013, writted by OSUWMC Reference Interval study 2021.	10-1,000	10-2,000
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Lactate Dehydrogenase	LD	Utilizes the forward reaction of lactate to pyrruste. Lactate and NAD are converted to pyrruste and NADH catalyzed by I.D. NADH strongly absorbs light at 340 nm, whereas NAD does not. The rate of change of absorbance at 340 nm is directly proportional to the I.D activity in the sample.	Beckman	U/L	19+ years: 100-190	N/A	Clinical Guide to Laboratory Tests, Tietz, 1995; verified by OSUWMC Reference Interval Study 2021. Pediatric Reference Ranges, Soldin, 1999	25-1,200	25-60,000
Lactate Debydrugenase Body Fluid	FLLD	See Lactate Dehydrogenase (LD)	Beckmun	U/L	cells can falsely increase LDH measurements. Esteward LDH in CSF specimens may indicate a non-specific immune process. CSF LDH measurements above 40 UL, may be ssociated with (restrictive had-not successed to the control of the central nervous system. Pleural: A Pleural fluid LDH to serum/plana LDH ratio > 0.6 or a troop that the control of the central nervous system. Pleural: A Pleural fluid LDH to serum/plana LDH reference interval suggests an exudate. Pericondial Pericondial fluid LDH to serum/plana LDH ratio > 0.6 or a Peritoned: Peritoned fluid LDH to Serum/plana LDH ratio > 0.6 or a Peritoned: Peritoned fluid LDH to serum/plana LDH ratio > 0.6 or a Peritoned: Peritoned fluid LDH to serum/plana LDH ratio > 0.6 In the serum plana LDH	N/A	CSF-Clinical Unity of Biochemical Analysis of Greebrospan Final Clinical Analysis of Greebrospan Final Clinical Periorative Interpretation Final Proceedings of the Periorative Interpretation Final Perioration Final Perior	25-1,200	25-30,000
Lactate, Blood	Lactate, Plasma	L-lactate is oxidized to pynwate and hydrogen peroxide by lactate oxidase (LOD). A colored product is produced by the reaction of produced by the reaction of the produced by the reaction of the produced by the reaction of the produced by the produced product is measured photometrically. The color intensity is proportional to the concentration of lactate in the sample under examination.	Beckman	mmol/L	All: 0.5-2.2	25.0	Beckman Coulter Literature (IFU) which cises, Tetze, N. W. Clinicio, Guide, Laboratory V. Clinicio, Guide, Saunders, Philadelphia, PA (1995).	02-10.0	0.2-30.0
	Lactic Acid	Amperometric	Radiometer	mmol/L	Adult: 0.5 - 1.6		ABL 800 Flex Reference Manual, 2008	0.0-30.0	0.0-30.0
Lactate, CSF	CSLACT	See Lactate	Beckman	mmol/L	Adult: <2.8	N/A	Beckman Coulter literature which cites Clinical Guide to Laboratory Tests,	0.2-10.0	0.2-30.0
Lactate, Fluid	FLACT	See Lactate	Beckman	mmol/L	The reference range has not been established for this fluid specimen. The fluid results should be compared with the concentration in serum/plasma or integrated into the clinical context for interpretation	N/A	Tietz. 1995 N/A	0.2-10.0	0.2-30.0
LDL, Direct Measure	LDLB, Low-Density Lipoprotein Cholesterol	Cholesterol is consumed by cholesterol externse, cholesterol criticals, peroxidase and 4-minontarypoint to generate two criticals, peroxidase and seminontarypoint to generate two recluses coholesterol or generate two recluses coholesterol restructures, cholesterol restructures, cholesterol restructures, cholesterol restructures, cholesterol criticals and a chromogen system to yield a blue color complex which can be measured believoursically at the complex which can be measured believoursically as the complex which can be measured believoursically as the complex which can be measured believoursically as the complex which considerates and a chromogen system of the complex which considerates a considerate of the complex which considerates a considerate of the complex which considerates a considerate of the considerates and the considerates	Beckman	mg dL	Adult optimal : <100	N/A	National Cholesterol Education Project (NCEP) Adult Treatment Protect (ATP II) (Circulation, 2002;106:5143-5421)	7-400	7-1,299
LH	Lateinizing Hormone	Two-site Sandwich Imrumosassy Chemiluminescent	Siemens	niUni.	Male 20-70 years: 1.5.03 Male >70 years: 3.1.4.6 Children: 6.00 Female, follicular phase: Female, indicular phase: 8.7.76.3 Female, hetail: 0.5-16.9 Female pregnat: 0.1-1.5 Female phase: Female, 5.5-4.0 Female on Contraceptives: 0.7.5.6	N/A	Astilies IM L11 Package Insert 1120/0385 EN Rev. 64-2020-06; Pediatric Reference Ranges, Soldin, 1999	0.07-290.00	0.07-6,400.00
Lipase	LIPA	Colorimetric method of Imamara, et al. I Pancreatic lipase hydrolyzes esters of long chain fatiy acids from their trighycenies. The enzyme activity requires the presence of collegae. I 2-30 gyresit is a hydrolyzed in particular to the collegae. I 2-30 gyresit is a hydrolyzed in 2-20 gyresit is a hydrolyzed in 2-20 gyresit is a hydrolyzed in measured by coupled enzyme reactions entalyzed by monoglyceride lipase (MCL), pgycerol kinase (GK), glycerol phosphate oxidase (GPO) and peroxidase (POD).	Beckmun	UL	19+ years: 11-82	N/A	Beckma Coulter Christory Information Short, 92020; worked by OSUNMAC Reference Internal Study 2021, Podiatric Reference Ranges, 1999	6-600	6-6,000
Lipase, Fluid	PFUNZ, PFUN15, PFUN30, PFUN45, PFUN60	See Lipase	Beckman	U/L	The reference range has not been established for this fluid specimen. The fluid results should be compared with the concentration in serum/plasma or integrated into the clinical context for interpretation.	N/A	N/A	6-600	6-600
Lipid Panel With Reflex To Measured LDL	Lipid Screen, LIPDR	See individual testing methodology	See individual testing methodology	Varies	Varies	N/A	N/A	N/A	N/A
Lithium Level	п	A spectrophotometric method which can be readily adapted to automated clinical chemistry analyzers. Lithium present in the sample reacts with a substituted porphyrin compound at an alkaline JH, resulting in a change in absorbance which is directly proportional to the concentration of Lithium in the sample.	Beckman	mmol/L	<60 years: 0.60-1.20 260 years: 0.40-0.80 (Therapeutic Range)	>1.50	Applied Clinical Pharmacokinetics, Bauer, 2001; Clinical Pharmacokinetics, Eilers, 1995;29:442-50 Bipolar Disord. 2019 Mar;21(2):117- 123. Bipolar Disord. 2019 May;21(3):190- 191.	0.10-5.00	0.10-5.00
Magnesium	MG	Utilizes a direct method in which magnesium forms a colored complex with xylidyl blue in a strongly basic solution, where calcium interference is eliminated by glycofetherdiamine-N.N.N.N.*-tetrasectic acid (GEDTA).3.4.5 The color produced is measured bichromatically at 520/800 m and is proportional to the magnesium concentration.	Beckman	mg/dL	19+ years: 1.6-2.6	<1.0 and >4.4	Clinical Guide to Laboratory Tests, Tietz, 1995; verified by OSUWMC Reference Interval Study 2021. Pediatric Reference Ranges, Soldin, 1999	0.5-8.0	0.5-24.0
Magnesium, 24Hr Urine	UMG, 24	See Magnesium	Beckman	mg/24hrs	72.9×121.5	N/A	Clinical Guide to Laboratory Tests, Tietz, 1995	N/A (Calculation)	N/A (Calculation)
Magnesium, Urine, Random Microalbumin, Random Urine	N/A MALBR	See Magnesium Turbidimetry	Beckman Beckman	mg/dL ms/L	N/A N/A	N/A N/A	N/A Package Insert	0.5-10.0 7.0-450.0 N/A	0.5-100.0 7.0-4.500.0 N/A
Microalbumin, 24HR Urine Microalbumin/Creatinine Ratio	N/A	Turbidimetry	Beckman	mg/24 hours	≤30.0	N/A	Package Insert	(Calculation) N/A	(Calculation) N/A
(ACR)	N/A	Turbidimetry Immunochromatographic dipstick	Beckman Fisher Healthcare Sure-Vue	mg/g	≤30.0	N/A	Package Insert Sure Vue Signature Mono Package	(Calculation)	(Calculation)
Mononucleosis Screen	Mononucleosis Testing, Rapid	technology utilizing bovine ervthrocyte extract	Signature	Qualitative	All: Negative	N/A	Insert OSU, In House Reference Range	Positive / Negative	Positive / Negative
Osmolality	Osmolality, Serum	Freezing point depression.	Advanced Instrument Osmometer	mOsm/kg	278 - 305	<250 and >325	OSU, In House Reference Range Validation, 2017 Advanced Instruments Model A2O.	50-2,000	50-2,000
Osmolality, Stool	FOSMO	Freezing point depression. Calculation	Advanced Instrument Osmometer	mOsm/kg	275-300	N/A	June 2014.	50-2,000	50-2,000
Osmolality, Serum (Calculated)	Osmolality	(1.86 (Na +K) + 1.15 (Glucose/18) + (Urea/2.8) + 14	Beckman	mOsm/kg	278-305	N/A	OSU, In House Reference Range Validation, 2015	N/A	N/A
Osmolality, Urine	UOSMR	(Urea/2.8) + 14 Freezing point depression.	Advanced Instrument Osmometer	mOsm/kg	All: 300-900	N/A	Clinical Guidelines for Laboratory Tests, Tietz, 1995	50-2,000	50-2,000
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Phenoharbital Level, Random	PIBOR	The assay is board on competition between drug in the sample and drug labeled with the earyne glossoe-for hypothysel desployages (GOPDII) are authorly braining since, Euryneau Carbon and the authorly, as the drug concentration in the sample can be causted in turns of energies existly, and the carbon and t	Bedraun	meginL	All: 15.0-40.0 (Therapeutic Range)	>45.0	Applied Clinical Pharmacokinetics, 2001	50-80.0	5.0-240,0
Phenoharbital Level, Trough	PHNO	The assay is based on competition between drug in the sample and drug labeled with the earyne glossoe 6-th supportant doubly grossome (GOPTM) supported to the control of the control of the control of the carbody, so the drug concentration in the sample can be easured in term of curyum existivy. Active earyne converts incommandia to the carbody, and the control of the carbody of the control of the carbody of the control of the carbody of	Beckman	meg/mL	All: 15.0-40.0 (Therapeutic Range)	>45.0	Applied Clinical Pharmacokinetics, 2001	5.0-40.0	5.0-240,0
Phenytoin Total Level	PTN	The study is based on competition between drug in the sample and drug labeled with the enzyme gloscoed-by polyspike delay forgon (depth) for anti-oly basing sites. Enzyme to the sample on the drug concentration in the sample can be assessed in term of acrospose activity. Active enzyme converts couldend concentration in the sample can be consecuted in term of compute activity. Active enzyme converts couldend contained a desired formacionistic della desired formacionistic della	Beckman	megind.	All: 10.9-20.0 (Therapeutic Range)	222.0	Applied Clinical Pharmacokinetics, 2001	25-40.0	2.5-200.0
Phosphate, Inorganic	IP	Inorganic phosphate reacts with molybdate to form a heteropolyacid complex. The use of a surfactant climinates the need to prepare a protein free filtrate. The absorbance at 340/380 mm is directly proportional to the linorganic Phosphorus level in the sample.	Beckman	mg/dL	19+ years: 2.2-4.6	<1.0 and >10.0	OSLIWMC Reference Range Study effective 12.11.2013; verified by OSUWMC Reference Interval Study 2021. Pediatric Reference Ranges, Soldin, 1999	1.0-20.0	1.0-60.0
Phosphorus, 24Hr	UIP, 24	See Phosphorus	Beckman	g/24hrs	0.4-1.3	N/A	Clinical Guide to Laboratory Tests, Tietz. 1995	N/A (Calculation)	N/A (Calculation)
Phosphorus, Random Urine	UIPR	See Phosphorus	Beckman	mg/dL	N/A	N/A	N/A	10.0-200.0	10.0-1,000.0
Potavsium	к	The ISE module for Na+, K+, and CI- employs crown other membrane electrodes for sodium and potassims and a molecular oriented PVC reporting for a formation of the con- position for a pecific for each too or faterest at the sample. An electrical potential is developed according to the Nemas Equation for a specific ion. When compared to the Internal Electrone Solution, this electrical potential is translated into voltage and their into the ion concentration of the sample.	Beckman	mmol/L	18+ yean: 3.5-5.0	>18Y: <3.0 and >6.0 1-18Y: <3.0 and >6.0 <1Y: <3.0 and >7.0	OSUWMC Reference Range Study effective 12.11.2013; writed by OSUWMC Reference Interval Study 2021. Pediatric Reference Ranges, Soldin, 1999	1.0-10.0	1.0-10.0
Potassium Body Fluid	FK	See Potassium	Beckman	mmol/L	The reference range has not been established for this fluid specimen. The fluid results should be compared with the concentration in serum/plasma or integrated into the clinical context for interpretation	N/A	N/A	2.0-200.0	2.0-200.0
Potassium, 24 Hr Urine	UK, 24	See Potassium	Beckman	mmol/24hrs	25-125	N/A	Clinical Guide to Laboratory Tests, Tietz. 1995	N/A (Calculation)	N/A (Calculation)
Potassium, Random Urine	UKR	See Potassium	Beckman	mmol/L	N/A	N/A	Clinical Guide to Laboratory Tests, Tietz. 1995	2.0-200.0	2.0-200.0
Prealbumin	PALB	Turbidimetry	Beckman	mg/dL	17-34	N/A	Package Insert. Verified by OSUWMC Reference Interval Study 2021.	3-80	3-1,600
Procalcitonin	PROCAL	Two-site Sandwich Immunoassay Chemiluminescent	Siemens	ng/mL	<0.50	N/A	Atellica IM Procalcitonin 11200767 EN Rev. 03, 2019-06	0.04-50.00	0.04-2,000.00
Progesterone	PROG	Competitive immunoassay using direct chemiluminescent technology	Siemens	ng/mL	Male: 0.28-1.22 Female, follicular: Not detected-1.40 Female, lutenl: 3.34-25-56 Female, mid-lutenl: 4.44-28.03 Not detected-0.73 Not detected-0.73	N/A	Atellica IM Progesterone Package Insert 11200386_EN Rev. 04-2020-06	0.21-60.00	0.21-3,000.00
Prolactin	PROL	Two-site Sandwich Immunoassay Chemiluminescent	Siemens	ng/mL	3 states; 2 1-17; 2 1-17; 2 1-17; 3 1-28; 4 1-28; 5 1-20; 5 1-20; 5 1-20; 5 1-20; 6 1-19; 6 1-	N/A	Advia Centuur Prolectin Package Insert 111746 Rev. N. 2006-09; Pedatiric Reference Intervals, 5th ed Soldin, 2005	0.3-200.0	0.3-800,000.0
Protein Total	TP	Cupric ions in an alkaline solution react with proteins and polypeptides containing at least two peptide bonds to produce a violet colored complex. The absorbance of the complex at \$40/660mm is directly proportional to the concentration of protein in the sample.	Beckman	gʻdL	19+ years: 6.4-8.3	N/A	Clinical Guide to Laboratory Tests, Tietz, 1995; verified by OSUWMC Reference Interval Study 2021. Pediatric Reference Ranges, Soldin, 1999	3.0-12.0	3.0-24.0
Protein, 24 Hr Urine	UPRO	See Total Protein CSF (M-TP)	Beckman	mg/24hrs	40-225	N/A	Clinical Guide to Laboratory Tests, Tietz. 1995	N/A (Calculation)	N/A (Calculation)
Protein, CSF	CFP	The Urinary/CSF Protein reagent is a colorimetric method. Pyrogaliol red is combined with molybelate to form a red complex with a maximum is based on the shift in an observed to the colorimetric manner that occurs when the pyrogaliol red-molybelate complex binds basic amino groups of protein molecules. Under the conditions of the test in the colorimetric manner of the conditions of the test in the colorimetric manner of the conditions of the test in the colorimetric maximum absorbance at 600 mm.	Beckman	mg/dL	31+ Days: 15-45	NA	Clinical Guide to Laboratory Tests, Tietz, 1995; Pediatric Reference Ranges, Suddin, 1999	4-290	4-5,000

Protein, Fluid	FLP	Cupric ions in an alkaline solution react with proteins and polypeptides containing at least two peptide bonds to produce a violet colored complex. The absorbance of the complex at \$40/660m is directly proportional to the concentration of protein in the	Beckman	g/dL	Most transudates have total protein concentrations below 3.0 g/dL.	N/A	4th Edition of Tietz	0.5-12.0	0.5-24.0
		sample.							
Protein, Random Urine	UPROR	See Total Protein CSF (M-TP) Two-site Sandwich Immunoassay	Beckman	mg/dL	N/A	N/A	N/A Atellica IM PSA Package Insert	4-200	4-5,000
PSA, Screening PSA, Reflex to Free and Total	EPSA	Two-site Sandwich Immunoassay Chemiluminescent Two-site Sandwich Immunoassay	Siemens	ng/mL	All: ≤4.00	N/A	Atellica IM PSA Package Insert 10997799 EN Rev. 03-2019-09 Atellica IM PSA Package Insert	0.04-100.00	0.04-6,400,000.00
PSA - Tumor Marker	PSA PSATM	Chemiluminescent Two-site Sandwich Immunoassay	Siemens	ng/mL ng/mL	All: ≤4.00 All: <4.00	N/A N/A	10997799 EN Rev. 03-2019-09 Atellica IM PSA Package Insert	0.04-100.00	0.04-6,400,000.00
Rheumatoid Factor	RF	Chemiluminescent Turbidimetry	Beckman	IU/mL	≤14	N/A	10997799 EN Rev. 03-2019-09 Package Insert. Verified by OSUWMC	10-120	10-3,000
Rifeditatoid Factor		Serum is mixed with Reagent 1,	DCCRIMIN	TO ME	2.7	10.7	Reference Interval Study 2021.	10-120	10-5,000
Salirytate Level	Aspirin	which contains antibodies to salicylic acid and the concuryme nectorimatile adenime dissocietate (NAD). Subsequently, Regent 2, who the concurrence of the concurrenc	Beckman	mg/dL	Therapestic: 20.0-30.9	>30.0	Applied Pharmacokinetics: Principles of Therapeutic Dong Menintring, Ind East Commission of the Micromodes. On OSU Intranct.	5.0-80.0	5.0-240.0
Sødium	Na+	The ISE module for Na*, K*, and Cs- employs crown other amenbane electrodes for sodium and potassium and a molecular exercised National profits for each too of atterest the specific for each too of faterest in the sample, An electrical potential is developed according to the Nemas Equation for a specific ion. When compared to the Internal Reference Solution, this electrical potential is translated into voluge and then into the ion concentration of the sample.	Beckman	mmol/L	1+ years: 135-145	<125 and >160	Verified by OSLWMC Reference Interval Study 2021.	50-200	50-200
Sodium Body Fluid	FNA	See Sodium	Beckman	mmol/L	The reference range has not been established for this fluid specimen. The fluid results should be compared with the concentration in serum/plasma or integrated into the clinical context for interpretation.	N/A	N/A	50-200	50-200
Sodium, 24 Hr Urine	UNA, 24	See Sodium	Beckman	mmol/24hrs	40-220	N/A	Clinical Guide to Laboratory Tests, Tietz, 1995	N/A (Calculation)	N/A (Calculation)
Sodium, Random Urine T3 Free	UNAR FT3	See Sodium Competitive immunoassay using direct chemiluminescent	Beckman Siemens	mmol/L pg/mL	N/A 19+ years: 2.3-4.2	N/A N/A	N/A Atellica IM Free T3 Package Insert 10995347 EN Rev. 03-2020-06	10-400 0.2-20.0	10-400 0.2-20.0
T3 Total	T3. T3RIA	technology Competitive immunoassay using direct chemiluminescent	Siemens	ng/mL	19+ years:	N/A	Atellica IM Total T3 Package Insert	0.10-8.00	0.10-80.00
(Triiodothyronine)	13, 138.04	technology Competitive immunoassay using	Sienens	ng na.	0.60-1.81	NA	10995424_EN Rev. 03-2020-06 Atellica IM Total T4 Package Insert	0.10-8.00	0.10-30.00
T4	Thyroxine, Total	direct chemiluminescent technology Competitive immunoassay using	Siemens	mcg/dL	19+ years: 4.5-10.9	N/A	10995425_EN Rev. 03-2020-069; Pediatric Reference Ranges, Soldin, 1999 Atellica IM Free T4 Package Insert	0.4-30.0	0.4-300.0
T4 Free	Thyroxine, Free FT4	direct chemiluminescent technology	Siemens	ng/dL	19+ years: 0.89-1.76	≥4.50 (ED Only)	10995348_EN Rev. 06-2020-11; Pediatric Reference Ranges, Soldin, 1999	0.10-12.00	0.10-12.00
Testosterone	TESTOS	Competitive immunoassay using direct chemiluminescent technology	Siemens	ng/dL	Male: 87-814 Female: <48 (Female free testosterone = 0.08-0.5 ng/dL)	N/A	Advia Centaur Assay Manual, Testosterone II Package Insert 10998603 EN Rev. B. 2016-07	7-1,500	7-3,000
Theophylline Level	THEO	Based on competition between drug in the sample and drug labeled with the sample and drug labeled with the same of	Beckman	meg/mL	Adult: 5.0-20.0 (Therapeutic Range)	≥20.0	Applied Clinical Pharmacokinetics, 2001	2540.0	2.5-200.0
Tobramycin Level, Random	TOBR	This assay is based on competition for antibody binding sites between drug in the sample and drug labeled with the enzyme glucose-6, phosphate delydrogenase (GoPDI), binding to the ambibody, so the drug concentration in the sample can be measured in terms of enzyme activity. Active enzyme converts oxidized nicotiannide adelenie disulceducide of the control of the	Beckman	msg/mL	Displays in Comment Field: Feak 10-15.0 Trough-1.0	≥20.0 Peak	Antimicrobial Stewardship Program, 2013	0.6-10.0	0.6-50.0
Tobramycin Level, Extended Interval	TOBREI	This assay is based on competition for antibody binding sites between drug in the sample and drug labeled with the enzyme glucose-6-phosphate dehydrogenase (GoPJD). Enzyme activity decreases upon good contrastion in the sample can be measured in terms of enzyme activity. Active enzyme converts oxidized nicotiannide administration of measured in terms of enzyme activity. Active enzyme converts oxidized nicotiannide administration of enzyme activity. Active enzyme converts oxidized nicotiannide administration of enzyme activity. Active enzyme converts oxidized nicotiannide administration of enzyme active a	Beckmun	meginL	Displays in Comment Field: Peak 10.0-15.0 Trough <1.0	≥20.0 Peak	Antimicrobial Stewardskip Program, 2013	0.6-10.0	0.6-50.0
Tobramycin Level, Peak (Post Drug Level)	TOBRPK	This away is based on competition for antibody baseling aires between dwag in the sample and drug labeling aires between dwag in the sample and drug labeling aires between dwag in the sample and between the sample and the sample and the sample and incommande administration and sample	Beckman	mcg/mL	All: 10.0-15.0 (Therapeutic Range)	≥20.0 Peak	Antimicrobial Stewardship Program, 2013	0.6-10.0	0.6-50.0

Tobramycin Level, Trough (Pre Drug Level)	TOBRTR	This assay is based on competition for antibody binding sites between the control of the control	Beckman	mcg/mL	All: <1.0 (Therapeutic Range)	≥1.0 Trough	Antimicrobial Stewardship Program, 2013	0.5-10.0	0.6-50.0
Total Iron Binding Capacity	Transferrin/Iron Binding	Calculation: See information for	Beckman	mcg/dL	19+ years: 250-425	N/A	Clinical Guide to Laboratory Tests, Tietz, 1995; Pediatric Reference Ranges,	112-1,118	112-1,118
Transferrin	TRANB	Transferrin In the procedure, the measurement of the decrease in light transmitted (increase in absorbance) through particles suspended in solution as a result of complexes formed during the antigen-antibody reaction, is the basic of this news.	Beckman	mg/dL	200-400	N/A	Soldin, 1999 Fundamentals of Clinical Chemistry, Tietz 4th ed; Verified by OSUWMC Reference Interval Study 2021.	75-750	75-2,250
Trighyceide	TRIG	The givent is phosphoryload by a demonitor ripolophoryload by the presence of glycerol kinnes (CK) to the presence of glycerol kinnes (CK) to epickee glycerol-phosphate. The glycerol-phosphate is notified by a glycerol-phosphoryload by the glycerol-phosphoryload by the ground of the glycerol-phosphoryload by the glycerol phosphoryload diphydrosycterol phosphoryload glycerol-phosphoryload	Beckman	mg dL	Desirable: <150 Borderline: 150.199 High: 200.499 Very High: 2500	N/A	National Cholesterol Education Project (NCEP) Adult Treatment Protect (ATP- III) (Carculators, 2002;106:5145-5421)	10-1,000	10-10,000
Triglycerides, Body Fluid	FTRIG	See TG	Beckman	mg/df.	Perinnal Perinnel thad inspected with expected that of inspected the property of the property	N/A	Picural: Staats BA, et al. Mayo Clin Proc. 1986;55(1):700 Perinona: lingal pt. et. Hepatology. 1986;6(2):239	10-1,000	10-10,000
тѕи	Thyroid Stimulating Hormone, TSH High Sensitivity	The Atellica IM TSH3-UL assay in a third-generation assay that employs anti-FITC monoclonal antibody covalently bound to paramagnetic particles, an FITC-labeled anti-TSH capture mouse monoclonal antibody, and a tracer consisting of a proprietary actinium ester and an anti-TSH mouse monoclonal antibody conjugated to bovine serum albumin (BSA) for chemiluminescent detection.	Siemens	uIU/mL	18+ years: 0.550-4.780	Call abnormal ED only ≥150.000	Atellica IM TSH3-UIL Package Insert 11202198_EN Rev. 04-2021-03	0.008-150.000	0.008-150.000
TSH w/ FT4 Reflex	TSHQR	The Atellica IM TSHE-LU assay in a third-generation away that employs anti-FITC monoclonal antibody covalently bound to paramagnetic particles, an FITC-labeled anti-TSH englure mouse monoclonal antibody and a tracer consisting of a proprietary actinism ester and an anti-TSH mouse monoclonal antibody conjugated to bovine serum albumin (BSA) for chemiluminescent detection.	Siemens	ulU/mL	18+ years: 0.550-4.780	Call abnormal ED only ≥150.000	Atellica IM TSH3-UIL Package Insert 11202198_EN Rev. 04-2021-03	0.008-150.000	0.008-150.000
Urea Nitrogen, 24 Hr Urine	UUREA	See BUN	Beckman	g/24hrs	10.0-20.0	N/A	Clinical Guide to Laboratory Tests, Tietz, 2012	N/A (Calculation)	N/A (Calculation)
Uric Acid	URICB, UA	Uric acid is converted by uricase to allantoin and hydrogen peroxide. Hydrogen peroxide reacts with 4- aminoantipyrine (4-API) in the presence of Nn-bat(4-sulfobutyl)- 3.5-dimethylaniline, disodium salt (MADB) to produce a chromophore which is read bichromatically at 660/800 nm. The amount of dye formed is proportional to the uric acid concentration in the sample.	Beckman	mg/dL	19+ years: Female: 2.8-6.0 Male: 3.5-7.0	N/A	OSUWMC Reference Range Study effective 12.11.2013; verified by OSUWMC Reference Interval Study 2021. Pediatrik Reference Ranges, Soldin, 1999	1.5-30.0	1.5-60.0
Uric Acid (Spec Handling)	N/A	Uric acid is converted by uricase to allantoin and hydrogen peroxide. Ilydrogen peroxide reacts with 4-aminoantipyrine (4-AAP) in the presence of Nn-bind 4-uilchbutyl)-3.5-dimethylantline, disodium salt (MADB) to produce a chromophore which is read bichromatically at 660/800 mm. The amount of dye formed is proportional to the uric acid concentration in the sample.	Beckman	mg/dL	19+ years: Female: 2.8-6.0 Male: 3.5-7.0	N/A	OSUWMC Reference Range Study effective 12.11.2013; Pediatric Reference Ranges, Soldin, 1999	1.5-30.0	1.5-60.0
Uric Acid, 24Hr	UURIC, 24 UURICR	See Uric Acid See Uric Acid	Beckman Beckman	g/24hrs mg/dL	0.3-0.8 N/A	N/A N/A	Clinical Guide to Laboratory Tests, Tietz, 1995 N/A	N/A (Calculation) 1.0-100.0	N/A (Calculation) 1.0-300.0
Uric Acid, Random, Urine Urine Calcium Urine Urea Nitrogen - Random	Calcium. Random Urine UREAR	See Unic Acid See Calcium See BUN	Beckman Beckman	mg/dL mg/dL	N/A N/A N/A	N/A N/A	N/A N/A Clinical Guide to Laboratory Tests,	0.1-40.0 20-1,300	0.1-120.0 20-13,000
Urine Urea Nifrogen - Random Vancomycin Level, Random	VANCTR	Some more and a second control of the control of th	neceman Beckman	mgat. meginil.	Peak 20.0-40.0 Trough 10.0-20.0	NA 225.1 Trough	Tietz, 1995 Applied Clinical Pharmacokinetics, 2001 Clinical Pharmacokinety, 1995; 15:85-91, Antimicrobial Sewardship Program, 2013	20-5-00 2.0-5-0.0	20-13,000 2.0-250.0
Vancomycin Level, Trough (Fre Drug Level)	VANCTR	Somitime the warm forgest re- bells on the earner glucose of- with the earner glucose of- topopate delytopome (GOPU). Subsequently, Reugent 2, which Subsequently, Reugent 2, which contains antibodies to uncomprise and the coursyme incoltamatic administration of the comprise of the com- tangent of the comprise of the com- tained the comprise of the comprise of the com- tained the comprise of the comprise of the com- tained the com- tained the comprise of the comprise of the comprise of the com- tained the	Beckman	meg/mL	All: 10.9-20.0 (Therapeutic Range)	225.1 Trough	Applied Claisal Pharmacokinetics. 2001 Clainal Pharmacotherap, 1995; 15:85-91, Antimicrobial Stewardship Program, 2013	20-50.0	2.0-250.0

		Serum is mixed with Reagent 1.			1				
Vancomycin, Peak (Post Drug Level)	VANCPK	Sertium is mateed with Reagant 1, which contains wearnowing inhousements with the enterprise glossome containing the containing and the containing and the containing antibodies to watercopying and the containing and t	Beckmun	meg/mL	All: 20.9-40.0 (Therapeutic Range)	NA	Applied Clinical Pharmacokinetics, 2001 Clinical Pharmacokinerapy, 1995; 15:85-91	20-50.0	2.0-250.0
Vitamin B12	B12	Competitive immunoassay using direct chemiluminescent technology	Siemens	pg/mL	19+ years: 211-911	N/A	Atellica IM Vitamin B12 Package Insert 10995437_EN Rev. 02-2019-08; Pediatric Reference Ranges, Soldin, 1999	45-2,000	45-20,000
ADAMTS13 Activity and IgG Antibodies	AD13A	ELISA	Activity: VersaMax plate reader Technozym kit IgG Antibodies: VersaMax plate	Activity: % IgG Antibodies: U/mL	Activity: ≥40% IgG Antibodies: ≤12.0 U/mL	N/A	Technozym kit	Activity: 2-100% IgG Antibodies: 6.0-104.0 U/mL	Activity: 2-100% IaG Antibodies: 6.0-104.0 U/mL
Alternative Activation Pathway	Bb Complement	ELISA	reader, Technozym kit VersaMax Plate Reader, Quidel	ng/mL	695-1.974	N/A	Biomarker Reference Lab	See Quidel kit values	See Quidel kit values
EM Platelet (Electron Microscopy)	Tissue Exam	Whole mount	N/A	dg/plt	3.68-6.24	N/A	Old journal articles; lab derived	(lot number specific) N/A	(lot number specific) N/A
SC5b-9 Complement	Terminal Activation Pathway	ELISA	VersaMax Plate Reader, Quidel kit	ng/mL	6-598	N/A	Biomarker Reference Lab	See Quidel kit values (lot number specific)	See Quidel kit values (lot number specific)
Anti-Cardiolipin Ab, IgG	ACA; ACL; APA; Anti- Phospholipid Antibody IgG	Chemiluminescent two-step immunoassay with paramagnetic microparticles as the solid phase, and a derivative of isoluminol as the chemiluminescent molecule	Inova	cu	0.0-20.0	N/A	Inova Quanta-Flash Package Insert Verified in house	10.0-500.0	10.0-10,000.0
Anti-Cardiolipin Ab, IgM	ACA; APA; ACL; Anti- Phospholipid Antibody IgM	chemiluminescent molecule. Chemiluminescent wo-step immunosasy with paramagetic microparticles as the solid phase, and a derivative of isoluminol as the chemiluminescent molecule. Chromogenic measurement system	Inova	cu	0.0-20.0	N/A	Inova Quanta-Flash Package Insert Verified in house OSU Inhouse Study 02/2004: Blood.	10.0-200.0	10.0-4,000.0
Antithrombin	AT	consisting of a beam of monochromatic light at 405nm. This is a two step thrombin neutralization process.	Stago	96	17+ years: 85-118	N/A	Vol 80, 1998-2005, Andrew, 1992; Amer. Jour. Ped. Hematol. Oncol, Vol 12, 95-104, Andrew, 1990	See Stago Unicalibrator assayed values (lot number specific)	9-200
Anti Xu DOAC (Apitubun)	Apisaban, DOAC, Eliquis	Chromoginic measurement system consisting of a beam of monochromatic light at 405 mm.	Stago	ng/mL	Displayed Comment: Routine monitoring of ani XA activity is not recommended in reference range have not been reference range have not been established. At steady state-median (4th-95th percentle) peak and trough levels have been observed in clinical trials.	N/A	1. Package insert. Apicabam: Diagnostica Suga, Revised Amary 2015 2. Index KV, O'Callaghan MJ, Handa A, Control M, Collaghan MJ, Handa A, Collaghan M, Handa M, Manda M, Manda M, Handa M, Manda M, Manda M, Handa M, Manda M,	23-500	23-500
Anti Xa DOAC (Rivaroxaban) Anti Xa LMWH (Enoxaparin)	Rivarosaban, DOAC, Xarelto Anti-Xa for LMWH, Peak Dose,	Chromogenic measurement system constitute of heam of monochromatic light at 405 nm.	Stago	ng'mL	Displayed Comment: Routine monitoring of anti XA activity is not recommended in patients on Rivaroshan. Therapeutic reference ranges have on been (50.958) and post of the original post of the origin	WA	Diagnostics Stage, Revised December 2. Attack W. Stampelmonokimete and pharmacolymain profile of rivanvahan. Clinical Pharmacokimete 2014; 53(1):1-16 oci 10.007/s0(22):2. 3 (1):2.010-7. 4 (1):2.010-7. 4 (2):2.010-7.	25-500	25-500
4 Hr Post	AXMLPK	consisting of a beam of monochromatic light at 405nm.	Stago	Anti-Xa IU/mL	(Therapeutic Range: applies to 4 hour nost dose collections)	N/A	pgs. 64S-75S.	0.10-1.60	0.10-1.60
Anti Xa LMWH (Enoxaparin) Random	Anti-Xa for low molecular weight heparin	Chromogenic measurement system consisting of a beam of monochromatic light at 405nm.	Stago	Anti-Xa IU/mL	0.60-1.00 (Therapeutic Range: applies to 4 hour post dose collections)	N/A	Chest, vol. 119, issue 1, January 2001, pgs. 64S-75S.	0.10-1.60	0.10-1.60
Beta-2 Glycoprotein 1 Ab, IgG	Beta 2 Glycoprotein 1 IgG Antibody	Chemiluminescent two-step immunoassay with paramagnetic microparticles as the solid phase, and a derivative of isoluminol as the chemiluminescent molecule	Inova	cu	0.0-20.0	N/A	Inova Quanta-Flash Package Insert Verified in house	10.0-500.0	10.0-10,000.0
Beta-2 Glycoprotein I Ab, IgM	B2GP1, IgM; Beta 2 Glycoprotein 1 IgM Antibody	Chemiluminescent two-step immunoassay with paramagnetic microparticles as the solid phase, and a derivative of isoluminol as the chemiluminescent molecule.	I Inova	cu	0.0-20.0	N/A	Inova Quanta-Flash Package Insert Verified in house	10.0-200.0	10.0-4,000.0
Beta-2 Glycoprotein 1, Domain 1	Beta2 GP1 Domain 1, B2GP1 Dm1, β2GP1 Domain 1, β2GP1 Dm1	Chemiumnescent mosecute. Chemiumnescent two-step immunoassay with paramagnetic microparticles as the solid phase, and a derivative of isoluminol as the chemiluminescent molecule	I Inova	cu	0.0-19.9	N/A	Inova Quanta-Flash Package Insert Verified in house	10.0-200.0	10.0-2,000.0
D-Dimer, Quantitative	HSDDI	Immunoturbidimetric - photometric measurement system consisting of a beam of monochromatic light at 540nm passing through a solution of antibody coated microlatex particles.	Stago	mcg/mL FEU	<0.50	N/A	OSU Lab Normal Range Study (08/2007)	0.27-4.00	0.27-20.00
DIC Workup	DIC Panel Includes: Platelet Count, PT, PTT, Fib, TT, D-Dimer, PTT/TT Mixing Studies (as appropriate) and Pathologist Interpretation	See individual tests	See individual tests	See individual tests	See individual tests	See individual tests	See individual tests	See individual tests	See individual tests
Dilute Russell Venom Time	DRVVT	Mechanical Clot Detection	Stago	Ratio	Screen ratio: ≤1.19 Normalized ratio: ≤1.31	N/A	OSUWMC, in-house reference range study performed yearly Clinical Guide to Laboratory Tests, Tietz, 1995; Blood, Vol 80, 1998-2005,	N/A See Stago Unicalibrator assayed	N/A 3-500
Factor II Activity	Prothrombin Activity, FA2	Mechanical Clot Detection	Stago	% Activity	17+ years: 60-150	<5	Andrew, 1992; Blood, Vol 70, 165-172, Andrew, 1987 OSU Inhouse Study 02/2004; Blood,	values (lot number specific)	J010
Factor IX Activity	Christmas Factor, FA9	Mechanical Clot Detection	Stago	% Activity	17+ years: 77-147	<5	Vol 80, 1998-2005, Andrew, 1992; Blood, Vol 70, 165-172, Andrew, 1987	See Stago Unicalibrator assayed values (lot number specific)	1-500
Factor IX Inhibitor	Factor IX Antibody, FAC9AB	Mechanical Clot Detection Bethesda Assay	Stago	Bethesda units	Negative (0.0 Bethesda units)	N/A	N/A	N/A	0.0 - dilute to endpoint
Factor V Activity	Labile Factor, FA5	Mechanical Clot Detection	Stago	% Activity	17+ years: 50-150	⋖	Clinical Guide to Laboratory Tests, Tietz, 1995; Blood, Vol 80, 1998-2005, Andrew, 1992; Blood, Vol 70, 165-172, Andrew. 1987 Clinical Guide to Laboratory Tests, Tietz, 1995; Blood, Vol 80, 1998-2005,	See Stago Unicalibrator assayed values (lot number specific)	3-500
Factor VII Activity	FA7	Mechanical Clot Detection	Stago	% Activity	17+ years: 65-135	<5	Tietz, 1995; Blood, Vol 80, 1998-2005, Andrew, 1992; Blood, Vol 70, 165-172, Andrew, 1987	See Stago Unicalibrator assayed values (lot number specific)	3-1000
							OSU Inhouse Study 02/2004; Blood,	See Stago Unicalibrator assayed	
Factor VIII Activity	Anti Hemophilic Factor, FA8	Mechanical Clot Detection	Stago	% Activity	17+ years: 75-220	<5	Vol 80, 1998-2005, Andrew, 1992; Blood, Vol 70, 165-172, Andrew, 1987	values (lot number specific)	1-500

						_	Clinical Guide to Laboratory Tests, Tietz, 1995; Blood, Vol 80, 1998-2005,	See Stago Unicalibrator assayed	
Factor X Activity	Stuart Prower Factor, FA10	Mechanical Clot Detection	Stago	% Activity	17+ years: 60-130	্ব	Andrew, 1992; Blood, Vol 70, 165-172, Andrew, 1987 Clinical Guide to Laboratory Tests,	values (lot number specific)	3-500
Factor XI Activity	Hemophilia C, FA11	Mechanical Clot Detection	Stago	% Activity	17+ years: 65-135	⋖⋾	Tietz, 1995; Blood, Vol 80, 1998-2005, Andrew, 1992; Blood, Vol 70, 165-172, Andrew, 1987	See Stago Unicalibrator assayed values (lot number specific)	1 - 500
Factor XIII Activity	Fibrin Stabilization Factor, FA13	Solubility	N/A	N/A	Present 220-410	N/A	N/A OSU Lab Normal Range Study	N/A	Present Absent
Fibrinogea, Clottable Fibrinogea, Obstetrical	FIB, OB	Mechanical Clot Detection	Stago	mg/dL	First Trimester: 244-510 mg/dtr. 244-510 mg/dtr. 291-538 mg/dt. Third Trimester: 373-649 mg/dt. OB Patient Comment: Fibrinogan levels may be altered by the normal physiologic changes of pregnancy and behold be interpreted considering et al.	<75 200	(05/2003) (05/2003) (05/2003) Reference Abband-Ramonthi, Greet, Li, Cunningher, Perpansy and laboratory studies: a reference table for clinicians. Obster Gynecol 2009; 114-1326.	66-900	60-900
Heparin Anti-Xa Unfractionated	HEPAS	Chromogenic measurement system consisting of a beam of	Stago	IU/mL	0.30-0.70 (Therapeutic Range: applies to 4 hour	N/A	Chest, vol. 119, issue 1, January 2001, pgs. 64S-75S.	0.10-0.80	0.10-1.60
Heparin Platelet Factor 4 (HIT	PF4IGP	monochromatic light at 405nm. ELISA, IgG	Immucor	O.D., % Heparin Inhibition	ost dose collections) O.D. <0.400	N/A	Immucor LIFECODES® PF4 IgG Assay	0.000-3.000	0.000-3.000
Screen) With Reflex To SRA Hexagonal PL Neutralization	Hexagonal PL Neutralization; STACLOT-LA	Mechanical Clot Detection	Stago	sec	Henarin Inhibition- <50% ≤9.5	N/A	Package Insert OSUWMC, in-house reference range study performed yearly	N/A	≥0.0
INR	N/A	Calculated from PT value, the ISI and the geometric mean value of the PT normal reference range.	Stago	(ratio)	0.9-1.1 Oral Anticoagulant Therapy Target Ranges: Standard Therapy 2.0-3.0 High Dase 2.5.3.5	INR >4.9	OSUWMC in-house reference range, verified yearly	0.5 - 14.8	0.5 - 14.8
Lupus Anticoagulant	Lupus Workup Package includes PT, INR, TT, DRVVT Screen, PTT-LA, Mixing Studies, DRVVT Confirm and or Hexagonal Phase Phospholipid Neutralization (as appropriate)	See individual tests	See individual tests	See individual tests	See individual tests	See individual tests	See individual tests	See individual tests	See individual tests
Platelet Aggregation	NA	Platelet aggregometry / turbidimetric measurement of a solution.	Helena	% Aggregation	ADV 7.5 micromol. 648-11-2.4 ADD 10.0 micromol. 78.5-10-6.6 Collago, 2 mod 10.1 78.5-10-6.6 Collago, 2 mod 10.1 78.1-10-6.7 78.1-10-7 78.1-10-7 78.1-10-7 78.1-10-7 78.1-10-7 78.1-10-7 78.1-10-7 78.1-10-7 78.1-10-7 78.1-10-7 Thromboxen Analone U46619.2.0 micromol. 78.1-10-7 Thromboxen Analone U46619.2.0 Pathologic Interpretation: Normal	N/A	OSLIVIMC In-house Reference Range Study (03-2015)	NA	NA
Platelet Function Test	Platelet Function Assay, PFA	Instrument PFA-100 Closure Time: The time measured from the start of the test until a platelet to close aperture after exposure to agonist	Siemens	sec	Collagen/Epinephrine: 73-172 Collagen/ADP: 53-111 Platelet function interpretation: Normal Function	N/A	OSU Normal Range Study (07/2004)	31-300	31-300
Platelet P2Y12 Inhibition Test	P2Y12 Inhibition Test; Verify Now PRU Test	Platelet Aggregation is a self- contained test device	Verify Now	PRU	194 - 418	N/A	Accumetrics, verified at OSU	1-999	1-999
Protein C Activity	PROTC	Mechanical Clot Detection	Stago	% Activity	17+ years: 72-220	N/A	OSU Inhouse Study; Blood, Vol 80, 1998-2005, Andrew, 1992; Amer. Jour. Ped. Hematol. Oncol, Vol 12, 95-104, Andrew. 1990	See Stago Unicalibrator assayed values (lot number specific)	10-300
Protein S Activity	PROTS	Mechanical Clot Detection	Stago	% Activity	17+ years: 50-168	N/A	OSU Inhouse Study; Blood, Vol 80, 1998-2005, Andrew, 1992; Amer. Jour. Ped. Hematol. Oncol, Vol 12, 95-104, Andrew. 1990	See Stago Unicalibrator assayed values (lot number specific)	10 - 300
PT	Protime-INR	Mechanical Clot Detection	Stago	sec	11.9 - 14.2	N/A	OSUWMC in-house reference range, verified yearly	7.0 - 109.0	7.0 - 109.0
PT and PT Mixing Study	Prothrombin Time Mixing Study	Mechanical Clot Detection	Stago	sec	N/A	N/A	N/A	N/A	N/A
PT Mix w/ Normal Plasma	Protime Mixing Study N/A	Mechanical Clot Detection	Stago	sec	N/A 24.0-34.3	N/A	N/A	See PT Test	See PT Test
PTT	APTT	Mechanical Clot Detection	Stago	sec	24.0-34.3 Heparin Therapeutic Range (HTR):	Inpatient: >150.0	OSUWMC, in-house reference range study performed yearly	20.0 - 180.0	20.0 - 180.0
PTT Mix w/ Normal Plasma	Partial Thromboplastin Time N/A	Mechanical Clot Detection	Stago	sec	77.0 - 91.0 N/A	Outpatient: >60.0 N/A	N/A	See PTT Test	See PTT Test
PTT with Mixing Study PTT-LA	N/A LA-PTT; PTT- Lupus Sensitive,	Mechanical Clot Detection	Stago	sec	N/A	N/A	N/A OSUWMC, in-house reference range	See PTT Test 20.0-180.0	See PTT Test 20.0-180.0
	Includes PTT-LA Mixing Study	Mechanical Clot Detection Platelet Agglutination	Stago	sec	≤43.9	N/A	study performed yearly	See Helena SARP calibrator assayed	
Ristocetin CoFactor Thrombin Time	Von Willebrand Factor Activity Thrombin Clotting Time	Light Transmittance Aggregometry Mechanical Clot Detection	Helena	% Activity	40-200 13.0-20.0	N/A	OSU Normal Range Study OSU Lab Normal Range Study	value (lot number specific) 10.0-120.0	13-400 10.0-120.0
TT Mix w/ Normal Plasma				SEC		N/A			
(Not individually orderable. Order Lupus Anticoagulant Workum) TT Mix w/ Protamine Sulfate	Thrombin Clotting Time	Mechanical Clot Detection	Stago	sec	13.0-20.0	N/A	OSU Lab Normal Range Study	10.0-120.0	10.0-120.0
(Not individually orderable. Order Lupus Anticoagulant Workup)	Thrombin Time with Heparin Neutralization	Mechanical Clot Detection	Stago	sec	13.0-20.0	N/A	OSU Lab Normal Range Study	10.0-120.0	10.0-120.0
Von Willebrand Battery Agn + Factor VIII	Von Willebrand Workup Includes: PTT, Factor VIII, VWF Antigen, Ristocetin Cofactor, and a Von Willebrand Multimeric (as applicable)	See individual tests	See individual tests	See individual tests	See individual tests	See individual tests	See individual tests	See individual tests	See individual tests
Von Willebrand Factor Ag	VWFAG	Immunoturbidimetric-photometric measurement system consisting of a beam of monochromatic light at 540nm passing through a solution of antibody coated microlatex particles.	Stago	%	17+ years: 50-180	N/A	OSU Inhouse Study; Blood, Vol 80, 1998-2005, Andrew, 1992; Blood, Vol 70, 165-172, Andrew, 1987	See Stago VWF: Ag Calibrator assayed value (lot number specific)	3-400
Band Neutronhils Band/Band + Seg Ratio	N/A BANDR	Manual Differential Calculation:	N/A N/A	% N/A	N/A N/A	N/A ≥0.25	N/A N/A	0.0-100.0 0.00-1.00	0.0-100.0 0.00-1.00
Basophil Relative (Fluid)	Body fluid cell differential	BANDS/(Segs+BANDS) Manual Differential Flow Cytometry/	N/A	%	N/A	(Neonates) N/A	N/A	0-100	0-100
Basophils %	N/A	Flow Cytometry/ Manual differential	Sysmex	% x10 ³ /uL	N/A ≥18 years:	N/A	N/A OSU Internal Normal Range Study,	0.0-100.0	0.0-100.0
Basophils Absolute	N/A	Calculation	Sysmex	-OR-	Male: 0.00-0.09 Female: 0.00-0.15	N/A	October 2018 Soldin, Steven J. Pediatric Reference Intervals. 7th ed., AACC Press, 2011.	Electronic: 0.04-440.00 <u>Manual</u> : 0.00-440.00	Electronic: 0.04-dilute to obtain numeric result Manual: 0.00-dilute to obtain numeric result
Basonhils Relative (CSF)	Spinal fluid cell differential	Manual Differential	N/A	K/uL % x10³/uL	0.00-0.15 N/A	N/A	N/A	0-100	0-100
Blast Absolute	N/A	Calculation	N/A	-OR-	All ages: 0.00	N/A	N/A	0.00-440.00	0.00-dilute to obtain numeric result
Blasts	N/A	Manual Differential	N/A	K/uL %	All ages: 0.0	N/A	N/A	0.0+100.0	0.0-100.0
Blasts Relative (CSF) Blasts Relative (Fluid)	Spinal fluid cell differential Body fluid cell differential	Manual Differential Manual Differential	N/A N/A	% %	N/A N/A	N/A N/A	N/A N/A	0-100 0-100	0-100 0-100
Body Fluid Cell Count	N/A	Hemocytometer Counts / Iris instrument	CCL: Iris RRL: N/A	See individual tests	See individual tests	See individual tests	See individual tests	See individual tests	See individual tests
Body Fluid Cell Count with	Body Fluid Battery	Hemocytometer Counts / Iris instrument/	CCL: Iris	tests See individual	tests See individual	tests See individual	tests See individual	tests See individual	tests See individual
Diff Bone Marrow Collection	N/A	Manual Differential Manual	RRL: N/A N/A	tests N/A	tests N/A	tests N/A	tests N/A	tests N/A	tests N/A
(Assist) CBC, EDIF, Platelet	CBC, Electronic Diff with	See individual analytes	Sysmex	Varies	Varies	Varies	Varies	Varies	Varies
CBC, Platelets	Platelets Complete Blood Count, Hemogram	See individual analytes	Sysmex	Varies	Varies	Varies	Varies	Varies	Varies
					•	,	•		

Cell Count & Diff, CSF; CSF		Hemocytometer Counts / Iris instrument/	CCL: Iris	See individual	See individual	See individual	See individual	See individual	See individual
Differential/Path Interpretatio		Manual Differential Unstained synovial fluid slides	RRL: N/A	tests	tests	tests	tests	tests	tests
Crystals, Fluid	N/A	reviewed by polarized microscopy. Hemocytometer Counts /	N/A CCL: Iris	N/A See	Negative See	N/A See	N/A See	N/A See	Positive / Negative See
CSF Fluid Count Only	Spinal Fluid Cell Count	Iris instrument	RRL: N/A	individual tests	individual tests	individual tests	individual tests	individual tests	individual tests
Eosinophils %	N/A	Flow Cytometry/ Manual differential	Sysmex	%	N/A	N/A	N/A	0.0-100.0	0.0-100.0
				x10 ³ /uL	≥18 years: Male:		OSU Internal Normal Range Study, October 2018	Electronic: 0.04-440.00	Electronic: 0.04-dilute to obtain numeric result
Eosinophils Absolute	N/A	Calculation	Sysmex	-OR-	0.00-0.48 Female:	N/A	Soldin, Steven J. Pediatric Reference	Manual: 0.00-440.00	Manual: 0.00-dilute to obtain numeric result
Eosinophils Relative (CSF)	Spinal fluid cell differential	Manual Differential	N/A	K/uL %	0.00-0.42 N/A	N/A	Intervals. 7th ed., AACC Press, 2011. N/A	0-100	0-100
Eosinophils Relative (Fluid)	Body fluid cell differential	Manual Differential	N/A	%	N/A	N/A	N/A OSU Internal Normal Range Study,	0-100	0-100
Extended Reticulocyte Panel	Panel includes: Ret%, Ret#, IRF and RET-HE	Flow Cytometry, Calculation	Sysmex	Varies	Varies	N/A	October 2018	Varies	Varies
W : C W	N/A	M INC. CI	N/A			N/A	Soldin, Steven J. Pediatric Reference Intervals. 7th ed., AACC Press, 2011. N/A	0.0-100.0	0.0-100.0
Hairy Cells	N/A	Manual Differential	NA	x10 ³ /uL	All ages: 0.0	NA.	N/A	0.0-100.0	0.0-100.0
Hairy Cells Absolute	N/A	Calculation	N/A	-OR-	All ages: 0.00	N/A	N/A	0.00-440.00	0.00-dilute to obtain numeric result
				K/uL	≥18years:		OSU Internal Normal Range Study,		
Hematocrit	HCT	Cumulative Pulse Height Detection	Sysmex	%	Male: 39.6-48.8	N/A	October 2018	0.1-75.0	0.1-dilute to obtain numeric result
Tematoeri .			-,		Female 34.9-44.3		Soldin, Steven J. Pediatric Reference Intervals. 7th ed., AACC Press, 2011.		
Hematocrit, Fluid	Fluid HCT, Fluid PCV	Manual Spun Hematocrit	N/A	%	N/A ≥18years:	N/A >12y:	N/A OSU Internal Normal Range Study,	5.0-60.0	5.0-60.0
Hemoglobin	HGB	Photometrically measured	Sysmex	g/dL	Male: 13.4-16.8	<7.0 and >22.0 8d-12y:	October 2018	0.2-26.0	0.2-dilute to obtain numeric result
Transgroom	I A A	THOUSE COMMON TRANSPORTER	Symme	gut	Female: 11.4-15.2	<8.0 and >22.0 0d-7d:	Soldin, Steven J. Pediatric Reference Intervals. 7th ed., AACC Press, 2011.	0.2-20.0	o.2-dilate to obtain mineral result
						<11.0 and >22.0	OSU Internal Normal Range Study,		
Immature Granulocytes %	N/A	Flow Cytometry	Sysmex	%	N/A	N/A	October 2018 Soldin, Steven J. Pediatric Reference	0.0-100.0	0.0-100.0
							Intervals. 7th ed., AACC Press, 2011.		
				x10 ³ /uL	≥18 years		OSU Internal Normal Range Study, October 2018	Electronic:	
Immature Granulocytes Absolute	IG	Calculation	Sysmex	-OR-	Male: ≤0.07 Female: ≤0.08	N/A	Soldin, Steven J. Pediatric Reference	Electronic: 0.04-440.00	<u>Electronic</u> : 0.04-dilute to obtain numeric result
				K/uL	>18 years:		Intervals. 7th ed., AACC Press, 2011. OSU Internal Normal Range Study,		
Immature Platalat Face	IPF	Calculation	Su	96	≥18 years: Male: 0.0-9.0	N/A	OSU Internal Normal Range Study, October 2018	0.0-100.0	0.0-100.0
Immature Platelet Fraction	IPT	Calculation	Sysmex	76	0.0-9.0 Female: 0.0-8.6	N/A	Soldin, Steven J. Pediatric Reference	0.0-100.0	0.0-100.0
					0.0+8.6 ≥18 years: Male:		Intervals. 7th ed., AACC Press, 2011. OSU Internal Normal Range Study, October 2018		
Immature Reticulocyte Fraction	IRF	Calculation	Sysmex	%	0.2-16.3 Female:	N/A	Soldin, Steven J. Pediatric Reference	0.0-100.0	0.0-100.0
					1.1-16.2 <3m: 35-50		Intervals. 7th ed., AACC Press, 2011. Body Fluids 3rd ed. Kjeldsbreg, Knight		
Lymphocytes Relative (CSF)		Manual Differential Flow Cytometry/	N/A	%	>3m 40-80	N/A N/A	1993	0-100	0-100
Lymphocytes %	N/A	Manual differential	Sysmex	% x10 ³ /uL	N/A ≥18 years:	N/A	N/A OSU Internal Normal Range Study,		
Lymphocytes Absolute	N/A	Calculation	Sysmex	-OR-	Male: 0.83-3.57	N/A	October 2018	Electronic: 0.04-440.00	Electronic: 0.04-dilute to obtain numeric result
			-	K/uL	Female: 1.16-3.51		Soldin, Steven J. Pediatric Reference Intervals. 7th ed., AACC Press, 2011.	Manual: 0.00-440.00	Manual: 0.00-dilute to obtain numeric result
Lymphocytes Relative (Fluid) Lymphoma Cells	Body fluid cell differential N/A	Manual Differential Manual Differential	N/A N/A	% %	N/A All ages: 0.0	N/A N/A	N/A N/A	0-100 0.0-100.0	0-100 0.0-100.0
				x10 ³ /uL					
Lymphoma Cells Absolute	N/A	Calculation	N/A	-OR-	All ages: 0.00	N/A	N/A	0.00-440.00	0.00-dilute to obtain numeric result
Lymphoma Cells Relative				K/uL					
(CSF) Lymphoma Cells Relative	Spinal fluid cell differential	Manual Differential	N/A	%	N/A	N/A	N/A	0-100	0-100
(Fluid)	Body fluid cell differential	Manual Differential	N/A	96	N/A NOPO - No parasitic organism seen,	N/A	N/A	0-100	0-100 No parasitic organism seen, including
Malaria Prep	Parasite Screen / ID Blood, MPB	Giemsa Stain	N/A	N/A	including plasmodium organisms	N/A	N/A	N/A	plasmodium organism / Positive for Plasmodium species
Malignant Cells Relative (CSF	Spinal fluid cell differential	Manual Differential	N/A	%	N/A	N/A	N/A	0-100	0-100
Malignant Cells Relative (Fluid)	Body fluid cell differential	Manual Differential	N/A	%	N/A	N/A	N/A	0-100	0-100
					≥18 years: Male:		OSU Internal Normal Range Study, October 2018		
Manual Retic	N/A	Manual/Miller Disk	N/A	%	0.68-2.64 Female:	N/A	Soldin, Steven J. Pediatric Reference	0.25-30.00	0.25-30.00
					0.74-2.54 ≥18 years: Male:		Intervals. 7th ed., AACC Press, 2011. OSU Internal Normal Range Study, October 2018		
MCH	Red Cell Indices	HGB x 10/RBC	Sysmex	Pg	26.1-33.3 Female:	N/A	Soldin Steven I Pediatric Reference	N/A	N/A
					25.9-33.9 >18 years:		Intervals. 7th ed. AACC Press, 2011. OSU Internal Normal Range Study,		
мснс	Red Cell Indices	HGB x 100/HCT	Sysmex	g/dL	Male: 31.9-36.5	N/A	October 2018	N/A	N/A
mene	ned een mateu	TRED X TOWNER	Symbol	gut	Female: 31.4-35.9	1674	Soldin, Steven J. Pediatric Reference Intervals 7th ed. AACC Press 2011	1674	1674
					≥18 years: Male:		Intervals. 7th ed., AACC Press, 2011. OSU Internal Normal Range Study, October 2018		
MCV	Red Cell Indices	HCT x10/RBC	Sysmex	fL	79.0-94.5 Female:	N/A	Soldin, Steven J. Pediatric Reference	N/A	N/A
Mesothelial Cells Relative	Body fluid cell differential	Manual Differential	N/A	%	79.6-97.7 N/A	N/A	Intervals. 7th ed., AACC Press, 2011. N/A	0-100	0-100
(Fluid) Metamyelocytes	N/A	Manual Differential	N/A	%	N/A	N/A	N/A	0.0-100.0	0.0-100.0
				x10 ³ /uL	≥18 years		OSU Internal Normal Range Study,		
Metas Absolute	N/A	Calculation	N/A	-OR-	Male: \$0.07	N/A	October 2018	0.00-440.00	0.00-dilute to obtain numeric result
				K/uL	Female: ≤0.08		Soldin, Steven J. Pediatric Reference Intervals. 7th ed., AACC Press, 2011.		
Monocytes %	N/A	Flow Cytometry/ Manual differential	Sysmex	96	N/A	N/A	N/A	0.0-100.0	0.0-100.0
Monocytes / Macrophages Relative (CSF)	Spinal fluid cell differential	Manual Differential	N/A	%	<3m 50-90 >3m 15-45	N/A	Body Fluids 3rd ed. Kjeldsbreg, Knight 1993	0-100	0-100
Monocytes / Macrophages Relative (Fluid)	Body fluid cell differential	Manual Differential	N/A	%	N/A	N/A	N/A	0-100	0-100
ACCOUNT OF THE OWNER.				x10 ³ /uL	≥18 years: Male:		OSU Internal Normal Range Study, October 2018	Electronic	Electronic:
Monocytes Absolute	N/A	Calculation	Sysmex	-OR-	0.24-0.93 Female:	N/A	Soldin, Steven J. Pediatric Reference	0.04-440.00 <u>Manual</u> : 0.00-440.00	0.04-dilute to obtain numeric result Manual:
				K/uL	0.22-0.87 >18 years:		Intervals. 7th ed., AACC Press, 2011. OSU Internal Normal Range Study,	0.00-440.00	0.00-dilute to obtain numeric result
MPV	N/A	Derived from the PLT histogram.	Sysmex	fL.	Male: 8.7-12.3	N/A	October 2018	N/A	N/A
					8.7-12.3 Female: 8.5-12.2		Soldin, Steven J. Pediatric Reference Intervals 7th ed. AACC Press 2011		
Myelocytes				%	N/A	N/A	N/A	0.0-100.0	0.0+100.0
	N/A	Manual Differential	N/A						i i
Myelos Absolute				x10³/uL	≥18 years		OSU Internal Normal Range Study, October 2018		
	N/A	Manual Differential Calculation	N/A	-OR-	≥18 years Male: ≤0.07 Female: ≤0.08	N/A	October 2018 Soldin, Steven J. Pediatric Reference	0.00-440.00	0.00-dilute to obtain numeric result
					Male: s0.07	N/A	October 2018 Soldin, Steven J. Pediatric Reference Intervals. 7th ed., AACC Press, 2011.	0.00-440.00	0.00-dilute to obtain numeric result
North 17 Ar	N/A	Calculation Flow Cytometry/	N/A	«OR- K/uL	Male: ≤0.07 Female: ≤0.08		October 2018 Soldin, Steven J. Pediatric Reference		
Neutrophils %		Calculation		-OR-	Male: s0.07	N/A N/A	October 2018 Soldin, Steven J. Pediatric Reference Intervals. 7th ed., AACC Press, 2011. OSU Internal Normal Range Study, October 2018 Soldin, Steven J. Pediatric Reference	0.00-440.00	0.00-dilute to obtain numeric result 0.00-100.0
Neutrophils % Neutrophils Relative (CSF)	N/A	Calculation Flow Cytometry/	N/A	«OR- K/uL	Male: ±0.07 Fernale: ±0.08 N/A <3m: 0-8		October 2018 Soldin, Steven J. Pediatric Reference Intervals: 7th ed., AACC Press, 2011. OSU Internal Normal Range Study, October 2018 Soldin, Steven J. Pediatric Reference Intervals: 7th ed. AACC Press, 2011. Body Fluids 7td ed. Kjeldobrev, Knight		
	N/A N/A Spinal fluid cell differential	Calculation Flow Cytometry/ Manual differential	N/A Symex	-OR- K/uL %	Male: \$0.07 Female: \$9.08 N/A	N/A	October 2018 Soldin, Steven J. Pediatric Reference Intervals. 7th ed., AACC Press, 2011. OSU Internal Normal Range Study, October 2018 Soldin, Steven J. Pediatric Reference Intervals. 7th ed., AACC Press, 2011. Bedy Fluids 3rd ed. AACC Press, 2011. Bedy Fluids 3rd ed. Section Reference 1993. N.A.	0.0-100.0	0.0-100.0
Neutrophils Relative (CSF) Neutrophils Relative (Fluid)	N/A N/A Spinal fluid cell differential Body fluid cell differential	Calculation Flow Cytometry/ Manual differential Manual Differential Manual Differential	N/A Syumex N/A N/A	-OR- K/uL % %	Male: \$0.07 Female: \$0.08 N/A <3m: 0.8 >3m: 0.6 N/A	N/A N/A N/A	October 2018 Sodin, Steven J. Pediatric Reference Intervals. The d., AACC Press, 2011. OSU Internal Normal Range Study, October 2018 Sodin, Steven J. Fediatric Reference Intervals. The d. AACC Press, 2011. Body Fluids Jerl 64, Sejdsberg, Knight 1931. Nyanex XV-9000 FEU (North America Edition)	0.0-100.0 0-100 0-100	0.0-100.0 0-100 0-100
Neutrophils Relative (CSF)	N/A N/A Spinal fluid cell differential	Calculation Flow Cytometry/ Manual differential Manual Differential	N/A Symex N/A	-OR- K/uL %	Male: ±0.07 Female: ±0.08 N/A <3m: 0-8 >3m: 0-6	N/A N/A	October 2018 Soldin, Steven J. Pediatric Reference Intervals. The d., AACC Press, 2011. (OSL) Internal Normal Range Study, October 2018 Soldin, Steven J. Pediatric Reference Intervals. The d. AACC Press, 2011. Body Fluids 3rd ed. Kydishbreg, Knight NA. Synex, NA/000 JF U (North American Edition) Code Pas. ACC94819	0.0-100.0 0-100	0.0-100.0
Neutrophils Relative (CSF) Neutrophils Relative (Fluid) NRBC	N/A N/A Spinal fluid cell differential Body fluid cell differential N/A	Calculation Flow Cytometry/ Manual differential Manual Differential Menual Differential Flow Cytometry	N/A Syumex N/A N/A	-OR- K/uL % %	Male: 50.07 Femule: 50.08 N/A <3m: 0.8 >Jan: 0.6 N/A 218 years:	N/A N/A N/A	October 2018 Sodin, Steven J. Pediatric Reference Intervals. The d., AACC Press, 2011. OSU Internal Normal Range Study, October 2018 Sodin, Steven J. Fediatric Reference Intervals. The d. AACC Press, 2011. Body Fluids Jerl 64, Sejdsberg, Knight 1931. Nyanex XV-9000 FEU (North America Edition)	0.0-100.0 0-100 0-100	0.0-100.0 0-100 0-100
Neutrophils Relative (CSF) Neutrophils Relative (Fluid) NRBC NRBCs Relative (Fluid) Nucleated RBCs Relative (CSF)	N/A Spinal fluid cell differential Hody fluid cell differential N/A Body fluid cell differential Spinal fluid cell differential	Calculation Flow Cytometry/ Manual differential Manual Differential Flow Cytometry Manual Differential Manual Differential Manual Differential	N/A Syunex N/A N/A Syunex N/A N/A N/A N/A	-OR- K/uL % %	Male: 50.07 Femule: 50.08 N/A <a href="mailto:small-state-</td><td>N/A N/A N/A N/A N/A N/A</td><td>October 2018 Soldin, Steven J. Pediatric Reference Intervals. 7th ed., AACC Press, 2011. OSU Internal Normal Range Study, October 2018 Soldin, Steven J. Pediatric Reference Intervals. 7th ed. AACC Press, 2011. Body Fluids 3rd ed. Kyfeldsbreg, Knight 1975. Symm. McA. AACC Press, 2011. Body Fluids 3rd ed. Kyfeldsbreg, Knight 1975. Symm. McA. AACC Press, 2011. Sold of the Communication of the Communicatio</td><td>0.0-100.0
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				x10 ³ /uL	1	I	T.	I	
Plasma Cells Absolute	N/A	Calculation	N/A	-OR-	All ages: 0.00	N/A	N/A	0.00-440.00	0.00-dilute to obtain numeric result
				K/uL					
Plasma Cells Relative (CSF) Plasma Cells Relative (Fluid)	Spinal fluid cell differential Body fluid cell differential	Manual Differential Manual Differential Electronic Resistance Detection	N/A N/A	% %	N/A N/A	N/A N/A	N/A N/A	0-100 0-100	0-100 0-100
Platelet Count		Electronic Resistance Detection		x10 ³ /uL	≥18 years: Male:	<30 and >1,000	OSU Internal Normal Range Study, October 2018		
Platelet Count - fluorescent	N/A	Flow Cytometry	Sysmex	-OR-	146-337 Female:	Oncology: <10 and >1,000	Soldin, Steven J. Pediatric Reference	5-5,000	5-dilute to obtain numeric result
Darkenske	N/A	Manual Differential	N/A	K/uL %	150-393 All nees: 0.0	N/A	Intervals. 7th ed., AACC Press, 2011.	0.0-100.0	0.0-100.0
Prolymphs	N/A	Manuai Differentiai	NA	x10 ³ /uL	All ages: 0.0	NA	NA	0.0-100.0	0.0-100.0
Prolymphs Absolute	N/A	Calculation	N/A	-OR-	All ages: 0.00	N/A	N/A	0.00-440.00	0.00-dilute to obtain numeric result
Promvelocvtes	N/A	Manual Differential	N/A	K/uL %	N/A	N/A	N/A	0.0-100.0	0.0-100.0
				$\times 10^3/uL$	≥18 years		OSU Internal Normal Range Study, October 2018		
Promyelocytes Absolute	N/A	Calculation	N/A	-OR-	Male: ≤0.07 Female: ≤0.08	N/A	Soldin, Steven J. Pediatric Reference	0.00-440.00	0.00-dilute to obtain numeric result
				K/uL	remare 50.00		Intervals. 7th ed., AACC Press, 2011.		
RBC (CSF)	Spinal fluid cell count	Hemocytometer Counts / Iris instrument Hemocytometer Counts /	CCL: Iris RRL: N/A	/uL	All Ages: <3	N/A	Body Fluids 3rd ed. Kjeldsbreg, Knight 1993	3-50,000	3-dilute to endpoint
RBC Fluid	Body fluid cell count	Hemocytometer Counts / Iris instrument	CCL: Iris RRL: N/A	/uL	N/A ≥18 years:	N/A	N/A OSU Internal Normal Range Study,	3-50,000	3-dilute to endpoint
RDW	Red Cell Indices	Derived from RBC histogram. Representative of CV% of the	Sysmex	%	Male: 10.9-14.3	N/A	October 2018	N/A	N/A
		histogram.	-		Female: 10.8-14.9		Soldin, Steven J. Pediatric Reference Intervals. 7th ed., AACC Press, 2011.		
				x10 ⁶ /uL	≥18years:		OSU Internal Normal Range Study,		
Red Blood Cell Count	RBC	Electronic Resistance Detection	Sysmex	-OR-	Male: 4.38-5.83	N/A	October 2018	0.05-8.60	0.05-dilute to obtain numeric result
				M/uL	Female: 3.91-5.04		Soldin, Steven J. Pediatric Reference Intervals. 7th ed., AACC Press, 2011.		
					Automated: ≥18 years:				
					218 years: Male: 0.0317-0.1377			<u>XN:</u> 0.0100-0.7200	XN: 0.0100-dilute to obtain numeric
				$\times 10^6/uL$	Female: 0.0324-0.1142		OSU Internal Normal Range Study, October 2018	XN-L:	result
Retic Absolute	N/A	Calculation: Ret% x RBC	Sysmex	-OR-	Manual:	N/A	Soldin, Steven J. Pediatric Reference	0.0100-0.4576	XN-L: 0.0100-dilute to obtain numeric result
				M/uL	≥18 years: Male:		Intervals. 7th ed., AACC Press, 2011.	Manual: 0.0000-8.6000	Manual: 0.0000-dilute to obtain
		<u> </u>			0.0317-0.1377 Female: 0.0324-0.1142				numeric result
		_			≥18 years: Male:		OSU Internal Normal Range Study, October 2018		
Retic Count	N/A	Flow Cytometry	Sysmex	96	0.68-2.64 Female:	N/A	Soldin, Steven J. Pediatric Reference	0.25-30.00	0.25-30.00
					0.74-2.54 ≥18 years: Male:		Intervals. 7th ed., AACC Press, 2011. OSU Internal Normal Range Study, October 2018		
Retic HGB Equivalent	RET-HE	Calculation	Sysmex	Pg	29.9-38.7 Female:	N/A	Soldin, Steven J. Pediatric Reference	N/A	N/A
					28.8-39.9 Male:		Intervals. 7th ed., AACC Press, 2011.		
					>85Y: <30 50-85Y: <20 0-49Y: <15				
Sedimentation Rate, Automated	ESR	Photometric Rheology	Alcor	mm/hr	Female:	N/A	JB Henry, Clinical Diagnosis & Mgmt., 19th Ed., 1996, pg. 1460	1-130	1-130
					>85Y: <42 50-85Y: <30				
				x10 ³ /uL	0.49V: <20 ≥18 years:		OSU Internal Normal Range Study,	Electronic:	Electronic:
Segs + Bands Absolute	ANC	Calculation: WBC x (NE% + Bands%)	Sysmex	-OR-	Male: 1.57-6.19	N/A	October 2018	0.04-440.00 Manual: 0.00-440.00	0.04-dilute to obtain numeric result Manual:
		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		K/uL	Female: 1.64-7.28		Soldin, Steven J. Pediatric Reference Intervals. 7th ed., AACC Press, 2011.		0.00-dilute to obtain numeric result
Sperm pH	YFER, YSEMB	pH paper	N/A	N/A	>7.0 Refer to Mayo	N/A	WHO laboratory manual for the Examination and Processing of Human Semen, 5th Ed	5.0-10.0 Refer to Mayo	5.0-10.0 Refer to Mayo
		Qualitative, visually read					Senien, Jul 1st		
Synovasure PJI, Synovial Fluid	Synovasure Alpha Defensin	immunochromatographic assay for the detection of human host response proteins, Alpha Defensins 1-3, in the	CD Diagnostics, Inc	N/A	Negative	N/A	Package Insert	N/A	Positive/Negative
-,	Lateral Flow Test	synovial fluid of adults with a total joint replacement who are being	,		5		5		5
Synovial Lining Cells Relative	Body fluid cell differential	evaluated for revision surgery. Manual Differential	27/4	%	N/A	277	N/A	0-100	0-100
(Fluid)		Hemocytometer Counts /	N/A CCL: Iris		<1Y: <31	N/A	Body Fluids 3rd ed. Kjeldsbreg, Knight		
TNC (CSF)	Spinal fluid cell count	Iris instrument Hemocytometer Counts /	RRL: N/A CCL: Iris	/uL	1-4Y: <21 >5Y: <6	≥41	1993	3-2,500	3-dilute to endpoint
TNC Fluid	Body fluid cell count	Iris instrument	RRL: N/A	/uL	N/A ≥18years:	N/A	N/A	3-2,500	3-dilute to endpoint
White Blood Count	WBC	Flow Cytometry	Sysmex	x10 ³ /uL -OR-	Male:	<1.50 and >35.00	OSU Internal Normal Range Study, October 2018	0.30-440.00	0.30-dilute to obtain numeric result
white Blood Count	WBC	riow Cytoliedy	Зумікх	K/uL	3.73-10.10 Female	Oncology: <0.50 and >35.00	Soldin, Steven J. Pediatric Reference Intervals. 7th ed., AACC Press, 2011.	0.30-440.00	0.30-datase to obtain numeric result
Urine Screen	Urine dipstick	Various	Siemens Clinitek	N/A	3 99-11 19 Various	Various	Various	Various	Various
Office Screen									Microscopic:
									Absent, Trace, Present
Bacteria	N/A	Microscopic Examination of Urine Sediment, CCL has Urine Particle	CCL: Sysmex or Beckman RRL, James, MMMP, SSCBC:	N/A	Absent	N/A	Urinalysis and Body Fluid, Ringsrud	N/A	CCL: Absent (0-499/uL),
Bacteria	NOA	Counter (UF1000i) and iQ200	N/A	NA	Absent	NA.	1995	N/A	(500-1199/uL), Trace (500-1199/uL), Present (≥1200/uL)
									iQ200:
		The annual law liber and the of							Absent, Trace, Present
		The peroxidase-like activity of hemoglobin catalyzes the reaction of diisopropylbenzene dihydroperoxide			Negative		Urinalysis and Body Fluid, Ringsrud		Negative, Trace, Small, Moderate,
Blood Urine	N/A	and 3,3',5,5'-tetramethylbenzidine to produce a color from orange to	Siemens Clinitek	NA	Manufacturer's sensitivity is 0.015- 0.062 mg/dL hemoglobin	N/A	1995	N/A	Large
		CCL: measuring the transmission and							
Appearance	Clarity	scattering of light that passes through the specimen.	CCL: Siemens Clinitek Novus James, RRL, MMPP, SSCBC:	N/A	Clear	N/A	Urinalysis and Body Fluid, Ringsrud 1995	N/A	Clear, Cloudy, Turbid
		RRL, James, MMMP, SSCBC: Manual	N/A				1773		
Color	N/A	Manual and reflectance spectrophotometer	CCL: Siemens Clinitek Novus James, RRL, MMPP, SSCBC:	N/A	Yellow	N/A	Urinalysis and Body Fluid, Ringsrud 1995	N/A	Yellow, Orange, Red, See Comment
		эрсспоримонасс	N/A				1773		
		Glucose oxidase catalyzes the breakdown of glucose into gluconic							
		acid and hydrogen peroxide.							
		CCL: This test is based on a double sequential enzyme reaction. One							
		enzyme, glucose oxidase, catalyzes the formation of gluconic acid and							
Glucose Urine	N/A	hydrogen peroxide from the oxidation of glucose. A second enzyme, peroxidase, catalyzes the	Siemens Clinitek	mg/dL	Negative		Urinalysis and Body Fluid, Ringsrud	N/A	Negative, 100, 250, 500, ≥1000
Glucose Offine	NOA	oxidative coupling of 4-amino- antipyrine and 4-methylcatechol by	Stellens Chinek	ingut	Manufacturer's sensitivity level is 75- 125 mg/dL	N/A	1995	N/A	Negative, 100, 230, 300, ≥1000
		hydrogen peroxide.							
		RRL, James, MMMP, SSCBC: Peroxidase catalyzes the reaction of							
		hydrogen peroxide with a potassium iodide chromogen to oxidize the							
		chromogen to colors ranging from green to brown.							
									Negative,
Ketones Urine	N/A	Acetoacetic acid reacts with nitroprusside to produce a maroon	Siemens Clinitek	200	Negative	N/A	Urinalysis and Body Fluid, Ringsrud	N/A	Trace, Small (15 mg/dL),
		color.		N/A	Manufacturer's sensitivity level is 5-10 mg/dL acetoacetic acid		1995		Moderate (40 mg/dL), Large (≥80 mg/dL), Unable to analyze due to interfering substance
-			<u> </u>	1	1	1	·	1	que to interiering substance

Leukocyte Esterase	N/A	Esterases contained in granulocytes catalyze the hydrolysis of the derivatized pyrrole amino acid ester to liberate 3-hydroxy-5-phenyl pyrrole which then reacts with a diazonium salt to produce a purple color.	Siemens Clinitek	N/A	Negative Manufacturer's sensitivity is 5-15 white blood cells/hpf	N/A	Urinalysis and Body Fluid, Ringsrud 1995	N/A	Negative, Trace, Small, Moderate, Large
Myoglobin Urine	Urine Myoglobin Screening	The peroxidase-like activity of hemoglobin catalyzes the reaction of disopropylbenzene dihydroperoxide and 3,3',5,5'-tetramethylbenzidine to produce a color from orange to green.	Siemens Clinitek	N/A	Negative Manufacturer's sensitivity is 0.015- 0.062 mg/dL hemoglobin and myoglobin	N/A	Urinalysis and Body Fluid, Ringsrud 1995	N/A	Negative, Reflexed to Sendout
Nitrites Urine	N/A	At the acid pH of the reagent area, nitrite in the urine reacts with p- arsanilic acid to form a Diaz onium compound which couples with 1,2,3,4-tetrahydrobenzo(h)quinolin- 3-ol to produce a pink color.	Siemens Clinitek	NA	Negative Manufacturer's sensitivity is 0.06-0.1 mg/dL nitrite ion	N/A	Urinalysis and Body Fluid, Ringsrud 1995	N/A	Negative, Positive
Occult Blood, Fecal- Immunological	FIOB	Immunological Fecal Occult Blood Test is a rapid, immunoassay for the rapid qualitative detection of human hemoglobin (HGB) in feces.	Hemosure	N/A	Negative	N/A	N/A	N/A	Negative, Positive
Occult Blood, Gastric	Gastroccult	Developing solution (stabilized mixture of hydrogen peroxide and denatured alcohol) creates a reaction between hemoglobin and guaiac to produce a blue color.	Gastroccult Beckman	N/A	Negative	N/A	N/A	N/A	Negative, Positive
Occult Blood, Stool	Occult Blood, Fecal Hemoccult	Developing solution (stabilized mixture of hydrogen peroxide and denatured alcohol) creates a reaction between hemoglobin and guaiac to produce a blue color.	Hemoccult Beckman	N/A	Negative	N/A	N/A	N/A	Negative, Positive
pH Urine	N/A	Double indicator principle to cover the range of urinary pH range. Colors range from orange through yellow and green to blue.	Siemens Clinitek	N/A	5.0-7.0	N/A	Urinalysis and Body Fluid, Ringsrud 1995	N/A	CCL, RRL, James: 5.0 - ≥9.0 SSCBC, MMMP: 5.0 - ≥8.5
Protein Urine	N/A	Based on the protein-error-of- indicators principle where at a constant pH, the development of any green color is due to the presence of protein.	Siemens Clinitek	mg/dL	Negative Manufacturer's sensitivity is 15- 30mg/dL albumin	N/A	Urinalysis and Body Fluid, Ringsrud 1995	N/A	Negative, Trace, 30mg/dL, 100mg/dL, ≥300mg/dL
RBC Casts	RBC Casts	Microscopic Examination of Urine Sediment and iQ200	CCL: Beckman RRL, James, MMMP, SSCBC: N/A	/lpf	0	Any seen	Urinalysis and Body Fluid, Ringsrud 1995	N/A	When reported: Rare, 1-2, 3-5, 6-9, 10-20, >20
RBC Urine	N/A	Microscopic Examination of Urine Sediment, CCL has Urine Particle Counter (UF1000i) and iQ200	CCL: Sysmex or Beckman RRL, James, MMMP, SSCBC: N/A	/hpf	0-2	N/A	Urinalysis and Body Fluid, Ringsrud 1995	N/A	0-2, 3-5, 6-9, 10-20, >20
Specific Gravity Urine	N/A	CCL: Fiber optic refractive index method RRL, James, MMMP, SSCBC: pKa change of pretreated polyelectrolyte in relation to ionic concentration	Siemens Clinitek	N/A	1.001-1.035	N/A	Urinalysis and Body Fluid, Ringsrud 1995	CCL Clinitek Novus: 1.001-1.045 CCL, RRL, James, SSCBC, MMMP Clinitek Advantus/Status+: ≤1.005, 1.010, 1.015, 1.020, 1.025, 21.030	CCL Clinitek Novus: 1.001-1.045 CCL, RRL, James, SSCBC, MMMP Clinitek Advantus/Status+: s1.005, 1.010, 1.015, 1.020, 1.025, \$\frac{1}{4}\text{District}\$
Squamous/Epithelial Cells	N/A	Microscopic Examination of Urine Sediment, CCL has Urine Particle Counter (UF1000i) and iQ200	CCL: Sysmex or Beckman RRL, James, MMMP, SSCBC: N/A	/hpf	Absent 1/hpf (1+) 2-5/hpf (2+)	N/A	Urinalysis and Body Fluid, Ringsrud 1995	N/A	1/hpf(1+) 2-5/hpf(2+) 6-8/hpf(3+)
Trichomonas	N/A	Microscopic Examination of Urine Sediment and iQ200	CCL: Beckman RRL, James, MMMP, SSCBC: N/A	N/A	Absent	N/A	Urinalysis and Body Fluid, Ringsrud 1995	N/A	>8/hpf (4+) When reported: Absent, Present
Urinalysis	U/A with Microscopic	Various	Siemens Clinitek, Sysmex and/or Beckman	N/A	Various	Various	Various	Various	Various
Urinalysis Reflex to Culture	UTI workup for general population	Various	Siemens Clinitek, Sysmex and/or Beckman	N/A	Various	Various	Various	Various	Various
Urine Dipstick with Reflex Microscopy	UASR	Various	Siemens Clinitek, Sysmex and/or Beckman if it is Positive	N/A	Various	Various	Various	Various	Various
Urobilinogen Urine	N/A	Ehrlich Reaction, in which p- diethylaminobenzaldehyde in conjunction with a color enhancer reacts with urobilinogen in a strongly acid medium to produce a pink-red color.	Siemens Clinitek	E.U/dL	0.2, 1.0	N/A	Urinalysis and Body Fluid, Ringsrud 1995	N/A	0.2, 1.0, 2.0,4.0, ≥8.0
WBC Casts	N/A	Microscopic Examination of Urine Sediment and iQ200	CCL: Beckman RRL, James, MMMP, SSCBC: N/A	/lpf	0	Any seen	Urinalysis and Body Fluid, Ringsrud 1995	N/A	When reported: Rare, 1-2, 3-5, 6-9, 10-20, >20
WBC Urine	N/A	Microscopic Examination of Urine Sediment, CCL has Urine Particle Counter (UF1000i) and iQ200	CCL: Sysmex and Beckman RRL, James, MMMP, SSCBC: N/A	/hpf	0-5	N/A	Urinalysis and Body Fluid, Ringsrud 1995	N/A	0-5, 6-9, 10-20, >20
Yeast /Fungi Acctone, Blood	N/A N/A	Microscopic Examination of Urine Sediment and iQ200 GC-FID	CCL: Beckman RRL, James, MMMP, SSCBC: N/A Asilent GC	N/A ms/dL	Absent <10	N/A >10	Urinalysis and Body Fluid, Ringsrud 1995 N/A	N/A 10-400	Absent, Present
Amikacin Level, Trough (Pre Drug Level)	N/A	Turbidimetric immunoassay	Beckman	me at. mcg/mL	Therapeutic Range: < 6.0	≥6.0	OSU Pharmacv OSU	3.0-50.0	3.0-150.0
Amikacin Level, Peak (Post Drug Level) Amikacin Level, Random	N/A Amikin	Turbidimetric immunoassay Turbidimetric immunoassay	Beckman	meg/mL meg/mL	Therapeutic: Range 30.0-60.0 Therapeutic Peak: 30.0-60.0	≥60.0	Pharmacv OSU	3.0-50.0	3.0-150.0
Amphetamine, Urine, Confirmation	Amphetamine, methamphetamine, adderall	LC/MS/MS	Agilent QQQ 6420	ng/mL	Trough: < 6.0	N/A	Pharmacy N/A	Amphetamine: 25-5000 ng/mL Methamphetamine: 25-5000 ng/mL Amphetamines Interpretation: Positive or None Detected (Positive if 1 or more drugs detected)	25-25,000 ng/mL
Amphetamine / Methamphetamine	Amphetamines Screen - Urine	Enzyme multiplied immunoassay	Beckman Coulter DxC700AU; Emit II Plus Amphetamines Assay	Negative / Presumptive Positive / Presumptive Positive. Confirmation to follow.	Negative	N/A	N/A	Cutoff: 500 ng/mL	N/A
Amphetamine/Methamphetami ne, Meconium	Amphetamines Screen - Meconium	Enzyme multiplied immunoassay	Beckman Coulter DxC700AU; Emit II Plus Amphetamines Assay	Negative / Presumptive Positive. Confirmation to Follow.	Negative	N/A	N/A	Cutoff: 1000 ng/g Cutoff	N/A
Amphetamines, Meconium, Confirmation	N/A	LC/MS/MS	SCIEX 3200 QTRAP	None Detected / Positive	None Detected	N/A	N/A	Cutoff Amphetamine: 100 ng/g Methamohetamine: 100 ng/g	N/A
Barbiturates	Barbiturates Screen - Urine	Enzyme multiplied immunoassay	Beckman Coulter DxC700AU; Emit II Plus Barbiturate Assay Beckman Coulter DxC700AU:	Negative / Presumptive Positive / Presumptive Positive. Confirmation to follow.	Negative	N/A	N/A	Cutoff: 200 ng/mL	N/A
Barbiturates Screen, Serum	N/A	Enzyme multiplied immunoassay	Thermo Scientific DRI Barbiturate Serum Tox Assav	Negative / Presumptive Positive	Negative	N/A	N/A	Cutoff: 1000 ng/mL Cutoff	N/A
Barbiturate Confirmation, Urine	N/A	GC-MS	Agilent GC/MS	None Detected / Positive	None Detected	N/A	N/A	Amobarbital: 200 ng/mL Butalbital: 200 ng/mL Butabarbital: 200 ng/mL Pentobarbital: 200 ng/mL Phenobarbital: 200 ng/mL Secobarbital: 200 ng/mL	N/A
Barbiturates, Meconium Barbiturates, Umbilical Cord		Enzyme multiplied immunoassay Enzyme multiplied immunoassay	Beckman Coulter DxC700AU; Emit II Plus Barbiturate Assay Beckman Coulter DxC700AU;	Negative / Presumptive Positive Negative / Presumptive Positive	Negative Negative	N/A N/A	N/A N/A	Cutoff: 400 ng/g Cutoff: 200 ng/mL	N/A N/A
Benzodiazepines	Benzodiazepines Screen - Urine	Enzyme multiplied immunoassay	Emit II Plus Barbiturate Assav Beckman Coulter DxC700AU; Emit II Plus Benzodiazepine	Negative / Presumptive Positive / Presumptive Positive.	Negative	N/A	N/A	Cutoff: 200 ng/mL	N/A
Benzodiazepine, Meconium		Enzyme multiplied immunoassay	Assay Beckman Coulter DxC700AU; Emit II Plus Benzodiazepine	Confirmation to follow. Negative / Presumptive Positive. Confirmation to Follow.	Negative	N/A	N/A	Cutoff: 400 ng/g	N/A
Benzodiaxpine Confirmation, Meconium	N/A	LCMSMS	Assay SCIEX 3200 QTRAP	None Detected / Positive	None Detected	N/A	N/A	Cutoff Alprazolam: 25 ng/g alpha-bydnoxyalprazolam: 125 ng/g 7-aminoclonazopam: 50 ng/g Diazepam: 120 ng/g Makaolam: alpha-bydroxymidazolam Nordiazepam: 50 ng/g Lorazepam: 200 ng/g Oxazepam: 100 ng/g Temazepam: 50 ng/g	N/A

Benndlargines, Urine, Confirmation	N/A	LCMSMS	SCIEX 3200 QTRAP	None Descende, 7: Antinoclotrasepane; 7: Antinoclotrasepane; 7: Antinoclotrasepane; 7: Antinoclotrasepane; 7: Antinoclotrasepane; 7: Antinoclotrasepane; 7: Alpracolam; Alpracolam; Diacepane; Fluntitrasepane; Diacepane; Fluntitrasepane; Diacepane; Fluntitrasepane; Oxacepane; Tenzacepane; Oxacepane; Tenzacepane; Trizzodam	None Detected	N/A	N/A	Cutoff 7-aminoclomacyanar 200 agind. 7-aminoclomacyanar 20 agind. Alpha-bydoxyalpracolam. 400 hydroxyalpracolam. 400 hydroxyalpracolam. 400 hydroxyalpracolam. 400 hydroxyalpracolam. 400 hydroxyalpracolam. 400 hydroxyalpracolam. 500 agind. Chlordacepoxide. 500 agind. Chloracyanar 200 agind. Diazepam 100 agind. Filmzepoxide 500 agind. Lozzepam. 100 agind. Hydroxyalpracolam. 400 agind. The company of the compan	N/A
Buprenorphine	Buprenorphine Screen - Urine	Enzyme multiplied immunoassay	Beckman Coulter DxC700AU; Emit II Plus Buprenorphine Assay	Negative / Presumptive Positive / Presumptive Positive. Confirmation to follow.	Negative	N/A	N/A	Cutoff: 5 ng/mL	N/A
Buprenorphine, Meconium	Suboxone	Enzyme multiplied immunoassay	Beckman Coulter DxC700AU; Emit II Plus Buprenorphine Assay	Negative / Presumptive Positive	Negative	N/A	N/A	Cutoff: 10 ng/g	N/A
Buprenorphine/Norbuprenorph ine, Urine, Confirmation	Suboxone, Buprenorphine metabolite	LC/MS/MS	Agilent QQQ 6420	ng/mL	< 5.0 ng/mL	N/A	N/A	Buprenorphine: 5.0 - 5,000.0 ng/mL Norbuprenorphine: 5.0 - 5,000.0	Buprenorphine: 5.0 -25,000.0 ng/mL Norbuprenorphine: 5.0 - 25,000.0 ns/mL
Cannabinoids (Marijuana)	THC Screen - Urine	Enzyme multiplied immunoassay	Beckman Coulter DxC700AU; Emit II Plus Cannabinoid Assay	Negative / Presumptive Positive / Presumptive Positive. Confirmation to follow.	Negative	N/A	N/A	Cutoff: 50ng/mL	N/A
Cannabinoids, Meconium	THC Screen meconium, marijuana screen	Enzyme multiplied immunoassay	Beckman Coulter DxC700AU; Emit II Plus Cannabinoid Assay	Negative / Presumptive Positive	Negative	N/A	N/A	Cutoff: 100 ng/g	N/A
Cannabinoids, Umbilical Cord	THC Screen meconium, marijuana screen	Enzyme multiplied immunoassay	Beckman Coulter DxC700AU; Emit II Plus Cannabinoid Assay	Negative / Presumptive Positive	Negative	N/A	N/A	Cutoff: 20 ng/mL	N/A
Carboxy THC, Urine, Confirmation	N/A	GC-MS	Agilent GC/MS	ng/mL	< 5.0 ng/mL	N/A	N/A	5.0-500.0 ng/mL	5.0-500.0 ng/mL
Cocaine	Cocaine Screen - Urine	Enzyme multiplied immunoassay	Beckman Coulter DxC700AU; Emit II Plus Cocaine Metabolite Assay	Negative / Presumptive Positive / Presumptive Positive. Confirmation to follow.	Negative	N/A	N/A	Cutoff: 150 ng/mL	N/A
Cocaine Confirmation, Urine	N/A	LC/MS/MS	Agilent QQQ 6420 Beckman Coulter DxC700AU;	ng/mL	< 25 ng/mL	N/A	N/A	Benzoylecgonine: 25-5,000 ng/mL Cocaine: 25-5,000 ng/mL	Benzoylecgonine: 25-25,000 ng/mL Cocaine: 25-25,000 ng/mL
Cocaine, Meconium	Coke	Enzyme multiplied immunoassay	Emit II Plus Cocaine Metabolite Assay	Negative / Presumptive Positive. Confirmation to Follow.	Negative	N/A	N/A	Cutoff: 300 ng/g	N/A
Cocaine, Meconium, Confirmation		LC/MS/MS	SCIEX 3200 QTRAP	None Detected / Positive	None Detected	N/A	N/A	Cutoff Cocaine: ng/g Benzoylecgonine: 50 ng/g	N/A
Creatinine	Creatinine - Urine Adulteration Screen	Kinetic modified Jaffe Chemiluminescent microparticle	Beckman Coulter DxC700AU; Creatinine	mg/dL	≥20.0	N/A	SAMSHA	1.0-300.0 mg/dL	1.0-300.0 mg/dL
Cyclic Citrullinated Peptide Ab Cyclosporine Level, Trough	Anti-CCP	Chemiluminescent microparticle immunoassay Chemiluminescent microparticle	Abbott	U/mL	<5.0	N/A	Abbott	0.5-200.0	0.5-1,200.0
(Pre Drug Level) Cyclosporine Level, 2HR	CSAN CSAN2	immunoassay Chemiluminescent microparticle immunoassay	Abbott	ng/mL	Therapeutic Range: 70-320 Therapeutic Range: 320 - 960	N/A N/A	Pharmacy OSU Pharmacy	30-1,500 30-1,500	30-3,000 30-3,000
Drugo Detected, Umbilical Cord		LOMSMS	SCIEX 3200 QTRAP	6-Monoacetylmorphine Or 7- Ammoclomacepum Or Alpha- Ammoclomacepum Or Alpha- Alpracolam Or Amphetumine Or Benzoyleogania Or Responsive Or Buprenosphine Or Coccase Or Buprenosphine Or Coccase Or Diplemelydramine Or EDDP- Burgam Or Dhyllwocodine Or Diplemelydramine Or EDDP- methadone Or EDDP- methadone Or EDDP- methadone Or EDDP- methadone Or Coccase Or Methapetenia Or Norroysodone Or Ottacrapum Or Norroysodone Or Ottacrapum Or Norroysodone Or Ottacrapum Or Oscocolor Or Ottacrapum Or Democrapum Or Norroysodone Or Ottacrapum Or Democrapum Or Norroysodone Or Ottacrapum Or Democrapum Or Norroysodone Or Ottacrapum Or Oscocolor Or Ottacrapum Or Oscocolor Or Ottacrapum Or Oscocolor Or Ottacrapum Or Oscocolor Ottacr	Negative	N/A	N/A	Cutoff (ug/g): Cutoff (ug/g): Ammonichmergum): (II), Alpha- monichmergum (II), Alpha- monichmergum (III), Alpha- monichmergum (III), Alpha- monichmergum (III), Alpha- monichmer (III), Emperanjam (III), Contine (I), Lordenie (III), Empolegamine (II), Empor- mendance (III), Albanophane (III), Empolementary (III), Methampter (IIII), Methandenie (III), Empolementary (III), Normycolome (III), Normycolome (III), Normycolome (III), Normycolome (III), Powenshame (III), Stermina (III), Termina (III), Stermina (III), Termina (III), Stermina (III), Zolpident(I), Zolpident(III), LUDOX (III) III.	N/A
Drugs Detected, Urine		LOMSMS	SCIEX 3200 QTRAP	amineclonazgena (Pr. Alpha- mineclonazgena (Pr. Alpha- Hydrovajetrazolam (Pr. Alpha- Hydrovajetrazolam (Pr. Alpha- Hydrovajetrazolam (Pr. Alpha- Hydrovajetrazolam (Pr. Alpha- Hydrovajetrazolam (Pr. Alpha- Hydrovajetrazolam (Pr. Alpha- (Pr. Alpha- Calfiene (Pr. Alpha- Hydrovajetrazolam (Pr. Alpha- (Pr. Alpha- Calfiene (Pr. Alpha- tarolam (Pr. Alpha- (Pr. Alpha- (Pr	Negative	N/A	N/A	6 Monicorphenyina (100), 2 Aminioflumizaryami (23, 17) Aminioflumizaryami (23, 17) Aminioflumizaryami (23, 17) Aminioflumizaryami (24), 17 Aminioflumizaryami (100), 18 Individual (100), 18 Individua	NA
Drugs Detected (Hlood)		LOMSMS	SCIEX 3200 QTRAP	aminoclonazepam Or 7- aminoclinarizepam Or Apha- Ilydroxylerazolam Or Apha- Ilydroxylerazolam Or Apha- Ilydroxylerazolam Or Apha- Ilydroxylerazolam Or Apha- Apha- Ilydroxylerazolam Or Californo Or Clantopoma Or Classipom Or Clonazepam Or Cacian or Designamine Or Designamin	Negative	N/A	N/A	6 Monacerylanophina (200), 7 Aminoflumirasymur25, 7 Aminoflumirasymur25, 7 Aminoflumirasymur25, 7 Aminoflumirasymur25, 7 Aminoflumirasymur25, 7 Aminoflumirasymur26, 7 Aminoflumirasymur26, 7 Aminoflumirasymur26, 7 Alphahydronylanophina (200), 7 Aminoflumirasymur26, 7 Caleigran (200), Caleig	N/A
Ethanol (Alcohol), Urine	Alcohol-Ethyl	Enzymatic	Beckman Coulter DxC700AU; Emit II Plus Ethyl Alcohol Assay	mg/dL	<10	N/A	N/A	10-600 mg/dL	10-600 mg/dL
Alcohol (Ethanol), Blood		Enzymatic	Beckman Coulter DxC700AU;	mg/dL	<10	≥300	N/A	10-600 mg/dL	10-600 mg/dL
Ethyl Alcohol, Blood	Alcohol-Ethyl, ETOH	GC-FID	Emit II Plus Ethyl Alcohol Assay Asilent GC	mæ/dL	<10	>300	N/A	10-400 mæ/dL	10-400
Ethylene Glycol, Blood, Ouantitative Confirmation	N/A	GC-FID	Agilent GC	mg/dL	<10	≥10	N/A	10-250 mg/dL	10-250

			Beckman Coulter DxC700AU;						
Ethylene Glycol, Blood, Screen with Reflex to Confirmation Everolimus, Trough (Pre Drug	Ethylene Glycol Level Afinitor	Enzymatic UV Particle-enhanced turbidimetric	Catachem DiscretPak Ethylene Glycol Reasent Kit	None Detected, Presumptive Positive. Confirmation to follow.	None Detected	≥ 10 mg/dL	N/A Microgenics Corp. Thermo Scientific	Cutoff: 10 mg/dL	N/A
Level)	Zortress	immunoassav	Beckman Beckman Coulter DxC700AU;	ng/mL Negative / Presumptive Positive /	Therapeutic range not established	N/A	OMS Everolimus IFU	2.0-20.0	2.0-40.0
Fentanyl	N/A	Enzyme multiplied immunoassay	ARK Fentanyl II Assay	Presumptive Positive. Confirmation to follow.	Negative	N/A	N/A	Cutoff: 1 ng/mL	N/A
Fentanyl, Meconium		Enzyme multiplied immunoassay	Beckman Coulter DxC700AU; ARK Fentanyl II Assay	Negative / Presumptive Positive. Confirmation to Follow.	Negative	N/A	N/A	Cutoff: 2 ng/g	N/A
Fentanyl, Meconium, Confirmation		LC/MS/MS	SCIEX 3200 QTRAP	None Detected / Positive	None Detected	N/A	N/A	Fentanyl: 25 ng/g Norfentanyl: 25 ng/g	N/A
Fentanyl, Urine, Confirmation	Fentanyl Urine Confirmation	LC/MS/MS	Agilent QQQ 6420	ng/mL	< 2.5 ng/mL	N/A	N/A	Fentanyl: 2.5-5,000 ng/mL Norfentanyl: 2.5 - 5,000 ng/mL	Fentanyl: 2.5-25,000 ng/ml. Norfentanyl: 2.5-25,000 ng/ml.
Gentamicin Level, Peak (Post Druz Level) Gentamicin Level, Trough	N/A	Enzyme immunoassay	Beckman	mcg/mL	3.0-15.0 (Therapeutic Range) <1 year: <1.6	≥20.0 <1 year: ≥1.6	OSU Pharmacv OSU	0.3-10.0	0.3-20.0
(Pre Drug Level)	N/A Glutaraldehyde - Urine	Enzyme immunoassay	Beckman Beckman Coulter DxC700AU;	meg/mL	> 1 year: ≤1.0 (Therapeutic Range)	> 1 year: >1.0	Pharmacy	0.3-10.0 Cutoff: 1000ng/mL	0.3-20.0
Glutaraldehyde Glutaraldehyde Confirmation	Adulteration Screen	Colorimetric	Sciteck SVT Aldehyde Reasent Sciteck Diagnostics AdultaCheck	Negative / Positive	Negative Negative	N/A N/A	N/A N/A	Cutoff: 0.20% to 0.40% vol/vol	N/A N/A
Hemorlobin A1C Isonropanol, Blood	HA1CI 2-propanol	Turbidimetric immunoassay GC-FID	Beckman Asilent GC	% ma/dL	4.7-5.6 <10 Therapeutic Range:	N/A >10	Textbook N/A OSU	4.0-15.0 10-400 mg/dL	4.0-15.0 10-400
Lidocaine Level	N/A	Enzyme immunoassay	Beckman Beckman Coulter DxC700AU:	meg/mL Negative / Presumptive Positive /	1.5-5.0	>6.0	Pharmacv	0.5-12.0	0.5-36.0
Methadone Methadone, Meconium	Methadone Screen- Urine	Enzyme multiplied immunoassay Enzyme multiplied immunoassay	Emit II Plus MethadoneAssay	Presumptive Positive. Confirmation to follow. Negative / Presumptive Positive.	Negative	N/A N/A	N/A N/A	Cutoff: 300ng/mL	N/A
Methadone, Meconium			Emit II Plus MethadoneAssay	Confirmation to Follow.	Negative			600 ng/g cutoff Cutoff	
Confirmation	N/A	LC/MS/MS	SCIEX 3200 QTRAP	None Detected / Positive	None Detected	N/A	N/A	Methadone: 50 ng/g EDDP: 25 ng/g Methadone: 25-5,000 ng/mL	N/A Methadone: 25-25,000 ng/mL
Methadone Confirm, Urine Methanol, Blood	N/A Alcohol-Methyl	LC/MS/MS GC-FID	Agilent QQQ 6420 Agilent GC	ng/mL mg/dL	< 25 ng/mL <10	N/A ≥10	N/A N/A	EDDP: 25-5.000 ng/mL 10-400 mg/dL	EDDP: 25-25.000 ng/mL 10-400
Methotrexate Level	N/A	Homogeneous enzyme immunoassay	Beckman	umol/L	Due to different protocols using this drug, contact the primary attending physician	N/A	OSU Pharmacy	0.04-1.20	0.04-1,200.00
Nicotine Screen Urine	Cotinine	Enzyme multiplied immunoassay	Beckman Coulter DxC700AU; Thermo Scientific DRI Cotinine Assay	Negative / Presumptive Positive / Presumptive Positive. Confirmation to follow.	Negative	N/A	N/A	Cutoff: 500ng/mL	N/A
Opiate	Opiate Screen - Urine	Enzyme multiplied immunoassay	Beckman Coulter DxC700AU; Emit II Plus Opiate Assay	Negative / Presumptive Positive / Presumptive Positive. Confirmation to follow.	Negative	N/A	N/A	Cutoff Clinical: 300ng/mL Workplace: 2000 ng/mL	N/A
Opiate, Meconium	Morphine screen, Codeine screen, Heroin screen	Enzyme multiplied immunoassay	Beckman Coulter DxC700AU; Emit II Plus Opiate Assay	Negative / Presumptive Positive. Confirmation to Follow.	Negative	N/A	N/A	Cutoff: 600 ng/g	N/A
Opioids, Meconium, Confirmation	N/A	LC/MS/MS	SCIEX 3200 QTRAP	None Detected / Positive	None Detected	N/A	N/A	Cutoff 6-Monacetyl morphine: Codeine: 500 ng/g Dihydrocodeine: 100 ng/g Hydrocodone: 75 ng/g Hydromorphone: 100 ng/g Morphine: 100 ng/g	N/A
Opioids, Urine, Confirmation	N/A	LC/MS/MS	Agilent QQQ 6420	ng/mL	6-Monoacetylmorphine < 5 ng/mL. Codeine, Morphine, Hydrocodone, Hydromorphone, and Tramadol < 25 ng/mL.	N/A	N/A	6-Monoacetylmorphine 5-5,000 ng/ml. Codeine 25-5,000 ng/ml. Morphine 25-5,000 ng/ml. Hydrocodone 25-5,000 ng/ml. Hydromorphene 25-5,000 ng/ml. Tramadol 25-5,000 ng/ml.	6-Monoacetylmorphine 5-25,000 ng/ml. Codeine 25-25,000 ng/ml. Morphine 25-25,000 ng/ml. Hydrocodone 25-25,000 ng/ml. Hydromorphone 25-25,000 ng/ml. Tramadol 25-25,000 ng/ml.
Oxidants	Oxidants-Urine Adulteration Screen	Colorimetric	Beckman Coulter DxC700AU; Sciteck SVT Oxidants Reagent	Negative / Positive	Negative	N/A	N/A	Cutoff: 50 mcg/mL	N/A
Oxidants Confirmation		Colorimetric	Sciteck Diagnostics AdultaCheck 6	Negative / Positive	Negative	N/A	N/A	Cutoff: 5 mg/dL Oxidants	
Oxycodone	Oxycodone Screen- Urine	Enzyme multiplied immunoassay	Beckman Coulter DxC700AU; Thermo Scientific DRI Oxycodone	Negative / Presumptive Positive / Presumptive Positive. Confirmation to follow.	Negative	N/A	N/A	Cutoff: 100ng/mL	N/A
Oxycodone, Urine, Confirmation	N/A	LC/MS/MS	Agilent QQQ 6420	ng/mL	< 25 ng/mL	N/A	N/A	Oxycodone: 25-5,000 ng/mL Oxymorphone: 25-5,000 ng/mL Noroxycodone: 25-25,000 ng/mL	Oxycodone: 25-25,000 ng/mL Oxymorphone: 25-25,000 ng/mL Noroxycodone: 25-25,000 ng/mL
Oxycodone, Meconium	Oxycontin	Enzyme multiplied immunoassay	Beckman Coulter DxC700AU; Thermo Scientific DRI Oxvcodone	Negative / Presumptive Positive	Negative	N/A	N/A	Cutoff: 200 ng/g	N/A
Pentobarbital Level	Nembutal	Gas chromatography	Agilent GC	ug/mL	Intracranial pressure therapy: 30-40	>45	OSU Pharmacy	5-50	5-50
pH	pH - Urine Adulteration Screen	Colorimetric	Beckman Coulter DxC700AU; Sciteck SVT pH Reagent	N/A	4.5-9.0	N/A	SAMSHA	3.0-9.0	3.0-9.0
pH Confirmation	pH - Urine Adulteration Confirmation	pH meter	Coming	N/A Negative / Presumptive Positive /	4.5-9.0	N/A	SAMSHA	3.0-11.0	3.0-11.0
Phencyclidine	PCP Screen - Urine	Enzyme multiplied immunoassay	Beckman Coulter DxC700AU; Emit II Plus Phencyclidine Assay	Presumptive Positive. Confirmation to follow.	Negative	N/A	N/A	Cutoff: 25ng/mL	N/A
Phenytoin Free Level	Dilantin, Free	Chemiluminescent microparticle immunoassav	Abbott	mcg/mL	0.6-2.4 (Therapeutic Range) Bone Marrow Transplant:	>3.0	OSU Pharmacv	0.5-40.0	0.5-40.0
Sirolimus (Rapamycin) Level, Random	Rapamycin	Chemiluminescent microparticle immunoassay	Abbott	ng/mL	4.0-12.0 Therapeutic: 5.0-30.0	N/A	OSU Pharmacy	2.0-30.0	2.0-60.0
Specific Gravity	N/A	Refractometry	Reichert Technologies TS Meter D Clinical Refractometers	N/A	1.003-1.030	N/A	SAMSHA	1.000-1.045	1.000-1.045
Tacrolimus, Random	Prograf	Chemiluminescent microparticle immunoassay	Abbott	ng/mL	Bone Marrow Transplant: 4.0-12.0 Therapeutic: 5.0-15.0	N/A	OSU Pharmacy	2.0-30.0	2.0-60.0
Toxicology Diversion Screen		LCMSMS	SCIEX 3200 QTRAP	6-monoscitylimorphine Or 7: minioclimarzejum Or 7: minioclimarzejum Or 7: Miphovsylipracolism Or Alphrovsylipracolism Or Buprecophine Or Methodone EDDP Or Fentary Or Coasine Or Codeine Or Methodone EDDP Or Fentary Or Plantirazepum Or Plantyreport Or Plantirazepum Or Malbepoine Or Methodone Or Morphine Or Morphine Or Morphine Or Morphine Or Morphine Or Morphine Or Or Morphine Or Or Morphine Or Or Orycodone Or Or Orycodone Or Or Orycodone Or Or Ormandol Or Or Tramadol Or Hydrovymidazolam Or Negative	Negative	N/A	N/A	Cutoff (rg/mL) Cutoff (rg/mL) Aminoflumitarymic (30), 7 Aminoflumitarymic (25), 7 Aminoflumitarymic (25), 7 Alphadphurymig prosine (30), 80, 90, 90, 90, 90, 90, 90, 90, 90, 90, 9	N/A

Toxicology Diversion Screen NCII		LOMSMS	SCIEX 3200 QTRAP	formonactylmsophine Or 7- minioclonsrepum Or 7- minioclonsrepum Or 7- minioclonsrepum Or Apha- Ibydrovalysterpolam Or Alpha- Ibydrovalysterpolam Or Alpha- Ibydrovalysterpolam Or Individual Or Indivi	Negative	NΆ	N/A	Custif (agests) Oktooscocy (broughes) (2012) Anisochomic (agests) (2012) Anisochomic (agests) (2012) Anisochomic (2012) Descripted	N∕A
Valproic Acid, Free	FVPA	Chemiluminescent microparticle immunoassay	Abbott	mcg/mL	5-35 (Therapeutic Range)	>40	OSU Pharmacy	2-150	2-150
Valproic Acid, Total	VPA	TOS Chemituminescent memoraparite immensions menceparite immensions with mecapitate immensions. RELL: Serum or plasma is mined with Reaguest 1, which contains authorize to sulprise and and the contraputation of the complete for authorize data of the complete for authorized to the comp	TOX. Abbott RRI: Beckman	megind.	50-120 (Therapeutic Range)	>150	Applied Clinical Pharmacokinetics, 2001 Clinical Pharmacokinetics, 1995;29:442-50	4-150	4-750
Cytogenetic Studies	Cytogenetics, karyotype Chromosome Analysis	Manual	N/A	N/A	See report	N/A	N/A	N/A	N/A
MDS FISH Panel	Panel Components: D5S23:D5S721/CSF1R, 5p15.2 / 5q33-34 D7Z1/D7S486,	Fluorescent in situ Hybridization	N/A	96	See report or contact lab at 614-293-	N/A	N/A	N/A	N/A
	7 centromere / 7q31 D8Z2/D20S108,8 centromere /	(FISH)			9898 for current reference range				
CG 1q25.2 (ABL2)	ABI.2 rearrangement, ABI.2, Abelson gene 2, 1025.2	Fluorescent in situ Hybridization (FISH)	N/A	96	N/A	N/A	N/A	N/A	N/A
CG 9q34.11-q34.13 (ABL1)	ABL1 rearrangement, ABL1, Abelson gene 1, CG 9g34.11-9g34.13 9 centromere, CEP 9, 9 cen,	Fluorescent in situ Hybridization (FISH)	N/A	96	See report or contact lab at 614-293- 9898 for current reference range	N/A	N/A	N/A	N/A
CG 9p11-q11 (D9Z4)	D9Z4. 9n11-a11 7 centromere, CEP 7, 7 cen,	Fluorescent in situ Hybridization	N/A	96	See report or contact lab at 614-293- 9898 for current reference range See report or contact lab at 614-293-	N/A	N/A	N/A	N/A
CG 7p11.1-q11.1 (D7Z1) CG 7p11.1-q11.1, 7q31 (D7Z1-	D7Z1, 7p11.1-q11.1 7q-, -7, 7q31, 7centromere, D7Z1, 7p11.1-q11.1, D7S486,	Fluorescent in situ Hybridization Fluorescent in situ Hybridization	N/A	96	9898 for current reference range See report or contact lab at 614-293-	N/A	N/A	N/A	N/A
D7S486) CG 15p11.1-q11.1 (D15Z4)	7a31 CEP15, 15 cen, 15 centromere,	(FISH)	N/A	%	9898 for current reference range See report or contact lab at 614-293-	N/A N/A	N/A N/A	N/A N/A	N/A N/A
CG 20q12, 8p11.1-q11.1	D15Z4. 15n11.1-a11.1 20q-, +8, 8 centromere, CEP 8, D8Z2, 8p11.1-q11.1 & D20S108,	Fluorescent in situ Hybridization	N/A	96	9898 for current reference range See report or contact lab at 614-293-	N/A	N/A	N/A	N/A
(D20S108-D872) CLL FISH Panel	20g12 Panel Components: ATM, 11q22.3 TP53, 17p13.1 D12Z3, 12 centromere	Fluorescent in situ Hybridization	N/A	96	9898 for current reference range See report or contact lab at 614-293- 9898 for current reference range	N/A	N/A	N/A	N/A
CG 2p16.1, 2q32.1 (REL-DIRC1)	D13S319. 13a14.3 REL, 2p16.1, DIRC1, 2q32.1	Fluorescent in situ Hybridization	N/A	96	See report or contact lab at 614-293- 9898 for current reference range	N/A	N/A	N/A	N/A
CG 6q21, 6q23 (SEC63-MVB)	SEC63, 6q21, myeloblastosis, MYB, 6q23 CDKN2A, cyclin dependent	Fluorescent in situ Hybridization	N/A	%	See report or contact lab at 614-293- 9898 for current reference range	N/A	N/A	N/A	N/A
CG 9p21, 9p11-q11 (CDKN2A- D9Z4)	kinase inhibitor 2A, 9p21, 9 centromere. D9Z4. 9p11-q11 12-13, 12 centromere, trisomy 12,	Fluorescent in situ Hybridization	N/A	96	See report or contact lab at 614-293- 9898 for current reference range	N/A	N/A	N/A	N/A
CG 12p11.1-q11, 13q14.3, 13q34 (D12Z3-D13S319-LAMP1)	12-13, 12 centromere, trisomy 12, del 13, 13q.5, D12Z3, 12p11.1- q11.1, D13S319, 13q14.3, LAMP1, 13q34, Panel Components: CDKN2C, 1p32.3 CKS1B, 1q21 CEP 7, 7911.1-q11.1	Fluorescent in situ Hybridization	N/A	96	See report or contact lab at 614-293- 9898 for current reference range	N/A	N/A	N/A	N/A
MYELOMA FISH PANEL	CEP 9, 9p11-q11 CEP15, 15p11.1-q11.1 ATM, 11q22.3 TP53, 17p13.1 RB1, 13q14.2 LAMP1, 13q34 IGH/CCND1, 14q32.3/11q13 IGH bn. 14q32.3	Fluorescent in situ Hybridization	N/A	96	See report or contact lab at 614-293- 9898 for current reference range	N/A	N/A	N/A	N/A
CG 1p32.3, 1q21 (CDKN2C- CKS1B)	1p, 1q, CDKN2C, 1p36.3, CKS1B. 1o21 BCL6 rearrangement, B-cell	Fluorescent in situ Hybridization	N/A	96	See report or contact lab at 614-293- 9898 for current reference range See report or contact lab at 614-293-	N/A	N/A	N/A	N/A
CG 3q27 (BCL6) CG 5q33-34,5p15.2 (CSF1R-	lymphoma 6. BCL6. 3a27 5p-5q5, 5q-, D5S23:D5S721, 5p15.2. CSF1R. 5a33-34, colony	Fluorescent in situ Hybridization Fluorescent in situ Hybridization	N/A N/A	96	9898 for current reference range See report or contact lab at 614-293-	N/A N/A	N/A N/A	N/A N/A	N/A N/A
D5S23:D5S721) CG 8q24.2 (MYC)	stimulating factor MYC rearrangement, CMYC,	Fluorescent in situ Hybridization	N/A	%	9898 for current reference range See report or contact lab at 614-293-	N/A	N/A	N/A	N/A
CG 11q22.3, 17p13.1 (ATM-TP53)	MYCC, MYC, 8a24 ATM-TP53, ATM, 11q22.3, TP53, 17p13.1	Fluorescent in situ Hybridization	N/A	96	9898 for current reference range See report or contact lab at 614-293- 9898 for current reference range	N/A	N/A	N/A	N/A
CG 12p13.2-21q22 (ETV6-RUNXI)	ETV6-RUNX1 translocation, t(12;21), TEL-AML1, ETV6, 12p13, RUNX1, 21g22	Fluorescent in situ Hybridization	N/A	96	See report or contact lab at 614-293- 9898 for current reference range	N/A	N/A	N/A	N/A
CG 13q14.2, 13q34 (RBI-LAMP1)	13q-, del13, -13, RB1, 13q14.2, LAMP1, 13q34 translocation (11;14), t(11;14),	Fluorescent in situ Hybridization	N/A	%	See report or contact lab at 614-293- 9898 for current reference range	N/A	N/A	N/A	N/A
CG 14q32.3-11q13.3 (IGH-CCND1)	Mantle cell lymphoma FISH, MCL FISH, CCND1, cyclin D1, 11q13, IGH, 14q32,3	Fluorescent in situ Hybridization	N/A	96	See report or contact lab at 614-293- 9898 for current reference range	N/A	N/A	N/A	N/A
CG 8p11.1-q11.1,8q24 (D8Z2- MYC)	8 centromere, +8, D8Z2, 8p11.1- a11.1, MYC single color, 8a24 NMYC amp, NMYC,	Fluorescent in situ Hybridization	N/A	96	See report or contact lab at 614-293- 9898 for current reference range See report or contact lab at 614-293-	N/A	N/A	N/A	N/A
CG 2p24,2p11-2q11 NMYC - D2ZI	neuroblastoma, MYCN, 2p24.1, 2 centromere. 2p11.1-a11.1 NUP98 rearrangement,	Fluorescent in situ Hybridization	N/A	96	9898 for current reference range See report or contact lab at 614-293-	N/A	N/A	N/A	N/A
CG 11p15.4 (NUP98) Xp22.33-Yp11.32	nucleonorin 98. NUP98. 11n15.4 P2RY8 rearrangement, P2Y8, P2Y receptor, purinoceptor 8,	Fluorescent in situ Hybridization	N/A N/A	96	9898 for current reference range See report or contact lab at 614-293-	N/A N/A	N/A N/A	N/A N/A	N/A N/A
(P2RY8) CG 1q23-19p13.3	P2Y receptor, purnoceptor 8, P2RY8, Xp22, 33 - Yp11, 32 PBX1-TCF3 translocation, t(1;19), pre-B-cell leukemia transcription factor 1, PBX1,	Fluorescent in situ Hybridization	N/A	96	9898 for current reference range See report or contact lab at 614-293-	N/A	N/A	N/A	N/A
(PBX1-TCF3) CG 5q32 (PDGFRB)	1q23, transcription factor 3, TCF3 19n13 3 PDGFRB rearrangement, platelet derived growth factor beta,	Fluorescent in situ Hybridization	N/A	96	9898 for current reference range See report or contact lab at 614-293-	N/A	N/A	N/A	N/A
CG 15q24-17q21	PDGFRB. 5a32 t(15;17), PML-RARA, APL FISH, promyelocytic leukemia,	Fluorescent in situ Hybridization	N/A	96	9898 for current reference range See report or contact lab at 614-293-	N/A	N/A	N/A	N/A
(PML-RARA)	PML, 15q24, retinoic acid receptor alfa. RARA, 17a21 RARA rearrangement, retinoic				9898 for current reference range See report or contact lab at 614-293-				
CG 17q21 (RARA) CG 21q22 (RUNXI)	acid receptor alfa, RARA, 17q21 RUNX1 rearrangement, runt- related transcription factor 1, AML1, acute myeloid leukemia	Fluorescent in situ Hybridization Fluorescent in situ Hybridization	N/A N/A	96 96	9898 for current reference range See report or contact lab at 614-293-	N/A N/A	N/A N/A	N/A N/A	N/A
CG 8q21.3-21q22 (RUNXITI-	marker 1. RUNX1. 21a22.12 RUNX1T1-RUNX1 translocation, t(8;21), ETO-AML1, ETO, eight-				9898 for current reference range See report or contact lab at 614-293-				
RUNXI)	twenty-one, RUNX1T1, 8q21.3, runt-related transcription factor 1, RUNX1, 21q22	Fluorescent in situ Hybridization	N/A	96	9898 for current reference range	N/A	N/A	N/A	N/A

4q12 (SCFD2-LNX-PDGFRA- KIT)	PDGFRA rearrangement, 4q tricolor, CHIC2, platelet derived growth factor alpha, SCFD2-LNX	Fluorescent in situ Hybridization	N/A	%	See report or contact lab at 614-293- 9898 for current reference range	N/A	N/A	N/A	N/A
CG 14q32.13-q32.2 (TCL1)	PDGFRA. 4q12 TCL1 rearrangement, inv(14), T- cell leukemia/lymphoma protein	Fluorescent in situ Hybridization	N/A	%	See report or contact lab at 614-293-	N/A	N/A	N/A	N/A
CG 7q34 (TRB)	1. TCL1. 14a32 TRB rearrangement, TCRB, T- cell receptor beta, TRB, 7a34	Fluorescent in situ Hybridization	N/A	%	9898 for current reference range See report or contact lab at 614-293- 9898 for current reference range	N/A	N/A	N/A	N/A
CG Xp11.1-q11.1, Yq12 (DXZI DYZI)	XY, opposite sex BMT FISH, X centromere, Xp11.1-q11.1, Yq,	Fluorescent in situ Hybridization	N/A	%	See report or contact lab at 614-293- 9898 for current reference range	N/A	N/A	N/A	N/A
CG 7p11.1-q11.1, 7q22, 7q36 (D7ZI-CUXI-CULI)	Yq12 7q-, -7, 7centromere, D7Z1, 7p11.1-q11.1, CUX1, cut like homeobox 1, CDP, CULT1,	Fluorescent in situ Hybridization	N/A	%	See report or contact lab at 614-293- 9898 for current reference range	N/A	N/A	N/A	N/A
CG 2p23.2-p32.1 (ALK)	7q22, CUL1, culling 1, 7q36 ALK rearrangement, anaplastic lymphoma kinase, ALK, 2p23	Fluorescent in situ Hybridization	N/A	%	See report or contact lab at 614-293- 9898 for current reference range	N/A	N/A	N/A	N/A
CG 19q13.3 (BCL3)	BCL3 rearrangement, B-cell leukemia/lymphoma 3, BCL3, 19p13	Fluorescent in situ Hybridization	N/A	%	See report or contact lab at 614-293- 9898 for current reference range	N/A	N/A	N/A	N/A
CG 22q11.2-9q34.1 (BCR-ABL1)	BCR-ABL1, t(9;22), Philadelphia chromosome, Ph+ FISH, Abelson 1, ABL1, 9q34, breakpoint cluster region, BCR, 22q11.2	Fluorescent in situ Hybridization	N/A	%	See report or contact lab at 614-293- 9898 for current reference range	N/A	N/A	N/A	N/A
CG 11q22-18q21.3 (BIRC3-MALT1)	BIRC3-MALT1 translocation, t(11;18), API2-MLT, baculoviral IAP repeat containing 3, BIRC3, 11q21, mucosa-associated lymphoid tissue lymphoma translocation protein 1, MALT1,	Fluorescent in situ Hybridization	N/A	%	See report or contact lab at 614-293- 9898 for current reference range	N/A	N/A	N/A	N/A
CG 16q22 (CBFB)	18g21 CBFB, core binding factor beta rearrangement, inv(16), t(16;16), 16g2 CBFB-MYH11, inv(16), t(16;16),	Fluorescent in situ Hybridization	N/A	%	See report or contact lab at 614-293- 9898 for current reference range	N/A	N/A	N/A	N/A
CG 16q22-16p13.1 (CBFB-MYH11)	inverted 16, translocation 16-16, myosin heavy chain 11, MYH11, 16p13, core binding factor, CBFB, 16o22	Fluorescent in situ Hybridization	N/A	%	See report or contact lab at 614-293- 9898 for current reference range	N/A	N/A	N/A	N/A
CG 4p11-q11,10p11.1-q11.1 (D4ZI-D10ZI)	4 centromere, CEP4, 4 cen, +4, 4p11-q11, 10 centromere, CEP10, 10 cen, +10, 10p11.1- a11.1	Fluorescent in situ Hybridization	N/A	%	See report or contact lab at 614-293- 9898 for current reference range	N/A	N/A	N/A	N/A
CG Xp22.33-Yp11.32 (CRLF2)	CRLF2 rearrangement, cytokine receptor like factor 2, CRLF2, Xp22 33/VP11 32	Fluorescent in situ Hybridization	N/A	%	See report or contact lab at 614-293- 9898 for current reference range	N/A	N/A	N/A	N/A
CG 6p22-9q34 (DEK-NUP214)	DEK-NUP214 translocation, DEK, 6p22.3, nucleoporin 214,	Fluorescent in situ Hybridization	N/A	%	See report or contact lab at 614-293- 9898 for current reference range	N/A	N/A	N/A	N/A
CG 5q31, 5p15.2 (EGR1-D5S23:D5S721)	NUP214. 9a34.12-9a34.13 5p-5q, 5q-, -5, D5S23:D5S721, 5p15.2, EGR1, early growth	Fluorescent in situ Hybridization	N/A	%	See report or contact lab at 614-293- 9898 for current reference range	N/A	N/A	N/A	N/A
CG 12p13.2 (ETV6)	response 1, 5a31 ETV6 rearrangement, ETS variant transcription factor 6, TEL,	Fluorescent in situ Hybridization	N/A	%	See report or contact lab at 614-293- 9898 for current reference range	N/A	N/A	N/A	N/A
CG 22q12 (EWSR1)	ETV6, 12p13 EWSR1 rearrangement, Ewing's sarcoma, EWS, EWS-FLI1, EWSR1, 22g12	Fluorescent in situ Hybridization	N/A	%	9898 for current reference range See report or contact lab at 614-293- 9898 for current reference range	N/A	N/A	N/A	N/A
CG 8p11.2, 8p11.1-q11.1 (FGFR1-D8Z2)	FGFR1 rearrangement, fibroblast growth factor receptor 1, FGFR1, 8p11.23, 8 centromere, 8p11.1- a11.1 FOXO1 rearrangement, FKHR,	Fluorescent in situ Hybridization	N/A	%	See report or contact lab at 614-293- 9898 for current reference range	N/A	N/A	N/A	N/A
CG 13q14 (FOXO1)	Foxhead box O, alveolar rhabdomyosarcoma, 13o14	Fluorescent in situ Hybridization	N/A	%	See report or contact lab at 614-293- 9898 for current reference range	N/A	N/A	N/A	N/A
CG 14q32.3 (IGH)	IGH rearrangement, immunoglobulin heavy locus, IGH. 14a32.3	Fluorescent in situ Hybridization	N/A	%	See report or contact lab at 614-293- 9898 for current reference range	N/A	N/A	N/A	N/A
CG 14q32.3-6p21 (IGH-CCND3)	IGH-CCND3 translocation, t(6;14), IGH, 14q32.3, CCND3,	Fluorescent in situ Hybridization	N/A	%	See report or contact lab at 614-293- 9898 for current reference range	N/A	N/A	N/A	N/A
CG 14q32.3-18q21.3 (IGH-BCL2)	cyclin D3, 6n21 IGH-BCL2 translocation, t(14;18), IGH, 14q32.3, B-cell leukemia/lymphoma 2, BCL2,	Fluorescent in situ Hybridization	N/A	%	See report or contact lab at 614-293- 9898 for current reference range	N/A	N/A	N/A	N/A
CG 14q32.3-4p16.3 (IGH-FGFR3)	18a21.3 IGH-FGFR3 translocation, t(4;14), IGH, 14q32.3, FGFR3,	Fluorescent in situ Hybridization	N/A	%	See report or contact lab at 614-293- 9898 for current reference range	N/A	N/A	N/A	N/A
CG 14q32.3-16q23 (IGH-MAF)	fibroblast growth factor 3. 4p.16 IGH-MAF translocation, t(14;16), IGH, 14q32.3, musculoaponeurotic fibrosarcoma, MAF, c-MAF,	Fluorescent in situ Hybridization	N/A	%	See report or contact lab at 614-293- 9898 for current reference range	N/A	N/A	N/A	N/A
CG 14q32,3-20q12 (IGH-MAFB)	16o23 IGH-MAFB translocation, t(14;20), IGH, 14q32.3, leucine zipper transcription factor β,	Fluorescent in situ Hybridization	N/A	%	See report or contact lab at 614-293- 9898 for current reference range	N/A	N/A	N/A	N/A
CG 14q32.3-8q24,8p11.1-q11.1 (IGH-MYC/D8Z2)	MAFB, 20q12 IGH-MYC translocation, t(8;14), Burkitt lymphoma FISH, IGH, 14q32.3, MYC, 8q24, 8	Fluorescent in situ Hybridization	N/A	96	See report or contact lab at 614-293- 9898 for current reference range	N/A	N/A	N/A	N/A
CG 2p11.2 (IGK)	GK rearrangement, Imnunoglobulin kappa, IGK,	Fluorescent in situ Hybridization	N/A	%	See report or contact lab at 614-293- 9898 for current reference range	N/A	N/A	N/A	N/A
CG 9p24 (JAK2)	JAK2 rearrangement, JTK10, Janus kinase 2, JAK2, 9p24	Fluorescent in situ Hybridization	N/A	%	See report or contact lab at 614-293- 9898 for current reference range	N/A	N/A	N/A	N/A
CG 11q23 (KMT2A)	KMT2A rearrangement, MLL, mixed lineage leukemia, lysine	Fluorescent in situ Hybridization	N/A	%	See report or contact lab at 614-293-	N/A	N/A	N/A	N/A
CG 3q26.2 (MECOM)	methyltransferase 2A, KMT2A, 11q23 MECOM rearrangement, EVII, MDS1 and EVII complex locus, MECOM, 3q26.2	Fluorescent in situ Hybridization	N/A	%	9898 for current reference range See report or contact lab at 614-293- 9898 for current reference range	N/A	N/A	N/A	N/A
Pediatric MDS FISH Panel	Panel Components: D5S23:D5S721/CSF1R 5p15.2 / 5q33-34 D7Z1/D7S486	Fluorescent in situ Hybridization (FISH)	N/A	%	See report or contact lab at 614-293- 9898 for current reference range	N/A	N/A	N/A	N/A
Pediatric MDS w/ EGR1 FISH	7 centromere / 7q31 D8Z2 - 8 centromere Panel Components: D5S23:D5S721/EGR1, 5p15.2 / 5q31	Fluorescent in situ Hybridization			See report or contact lab at 614-293-				
Panel Panel	D721/D7S486, 7 centromere / 7q31 D8Z2, 8 centromere Panel Components: D5S23:D5S721/EGR1, 5p15.2 /	(FISH)	N/A	%	9898 for current reference range	N/A	N/A	N/A	N/A
MDS w/ EGR1 FISH Panel	5q31 D7ZI/D7S486, 7 centromere / 7q31 D8Z2/D20S108, 8 centromere / 20o12	Fluorescent in situ Hybridization (FISH)	N/A	%	See report or contact lab at 614-293- 9898 for current reference range	N/A	N/A	N/A	N/A
MDS w/ EGR1 FISH Panel MPD FISH Panel	5q31 D7Z1/D7S486, 7 centromere / 7q31 D8Z2/D20S108, 8 centromere / 70x17 Panel Components: PDGFRA ba, 4q12 PDGFRB ba, 5q32 FGFR1 ba, 8p12 JAKE ba, 9p24		N/A N/A	96 96		N⁄A N⁄A	N/A N/A	N/A N/A	N/A N/A
	5-931 D72LID75486, 7 centromere / 7q31 D82ZID205188, 8 centromere / 70417 Panel Components: PDGPRA ba. 4q12 PDGPRA ba. 5q32 EFFE / 1045 EF	(FISH)			9898 for current reference range See report or contact lab at 614-293-				
MPD FISH Panel	\$41 541 7 continuence 7,631 7 continuence 7,631 Panel Components Panel Components PERSON 18,812 FORR 18, 8612 JACK 18, 9612 JACK 18, 9612 JACK 18, 9612 JACK 18, 9612 JACK 18, 9614 JACK 18,	(FISH) Fluorescent in situ Hybridization (FISH) Fluorescent in situ Hybridization	N/A	%	9898 for current reference range See report or contact lab at 614-293- 9898 for current reference range See report or contact lab at 614-293-	N∕A	N/A	N/A	N/A
MPD FISH Panel CLL Extended FISH Panel Myeloma IGH Reflex FISH	5-931 D7ZLID5486, 7-centromere / 7-931 D8ZZLID505100, 1-2000000000000000000000000000000000000	(FSII) Pluorescent in situ Hybridzation (FSII) Fluorescent in situ Hybridzation (FSII) Fluorescent in situ Hybridzation	N/A N/A	16	9898 for current reference range See report or contact lab at 614-293- 9898 for current reference range See report or contact lab at 614-293- 9898 for current reference range See report or contact lab at 614-293- 9898 for current reference range See report or contact lab at 614-293-	N/A	NA NA	N/A N/A	N/A N/A
MPD FISH Panel CLI. Extended FISH Panel Myeloma IGH Reflex FISH Panel Evaluation of the Panel Evaluation of the Panel	5-931 5-72/LID78486, 7 controueur (7-93) 6 controueur (7-94) 7-72 co	(FISH) Fluorescent in situ Hybridization (FISH)	N/A N/A	%	9898 for current reference range See report or contact lab at 614-293- 9898 for current reference range See report or contact lab at 614-293- 9898 for current reference range See report or contact lab at 614-293- 9898 for current reference range See report or contact lab at 614-293- 9898 for current reference range See report or contact lab at 614-293- 9898 for current reference range See report or contact lab at 614-293- 9898 for current reference range	N/A N/A N/A	N/A N/A	NA NA	N/A N/A
MPD FISH Panel CLL Extended FISH Panel Myeloma Kill Reflex FISH Panel Eosinophil AEL-CEL FISH Panel	\$431 5431 544 545 545 545 545 545 545 545 545 54	(FSII) Fluorescent in situ Hybridization	N/A N/A N/A	% % % % % % % % % % % % % % % % % % %	9898 for current reference range See report or contact lab at 614-293- 9898 for current reference range See report or contact lab at 614-293- 9898 for current reference range See report or contact lab at 614-293- 9898 for current reference range See report or contact lab at 614-293- 9898 for current reference range See report or contact lab at 614-293- 9898 for current reference range See report or contact lab at 614-293-	N/A N/A N/A	NA NA NA	NA NA NA	N/A N/A N/A
MPD FISH Panel CLI. Extended FISH Panel Myeloma IGH Reflex FISH Panel Eosinophil AEL-CEL FISH Panel NHL B-Cell FISH Panel	5-931 5-72/LID75486, 7-centromere / 76,13 6-72-Centromere / 76,13 7-centromere / 76,13 7-cent	Fluorescent in stu Hybridization (FISH)	N/A N/A N/A N/A	16 16 16 16 16 16 16 16 16 16 16 16 16 1	9898 for current reference range See report or contact lab at 614-293- 9898 for current reference range See report or contact lab at 614-293- 9898 for current reference range See report or contact lab at 614-293- 9898 for current reference range See report or contact lab at 614-293- 9898 for current reference range See report or contact lab at 614-293- 9898 for current reference range See report or contact lab at 614-293- 9898 for current reference range See report or contact lab at 614-293-	N/A N/A N/A N/A	N/A N/A N/A N/A	N/A N/A N/A N/A	N/A N/A N/A N/A
MPD FISH Panel CLI. Extended FISH Panel Myeloma IGH Reflex FISH Panel Myeloma IGH Reflex FISH Panel Ensinophil AEL-CEL FISH Panel NHL B-Cell FISH Panel	5-931 5-931 5-931 5-931 5-931 7-931	(FISH) Fluorescent in situ Hybridization (FISH)	N/A N/A N/A N/A N/A	16. 16. 16. 16. 16. 16. 16.	9898 for current reference range See report or contact lab at 614-293- 9898 for current reference range See report or contact lab at 614-293- 9898 for current reference range See report or contact lab at 614-293- 9898 for current reference range See report or contact lab at 614-293- 9898 for current reference range See report or contact lab at 614-293- 9898 for current reference range See report or contact lab at 614-293- 9898 for current reference range See report or contact lab at 614-293- 9898 for current reference range See report or contact lab at 614-293- 9898 for current reference range	N/A N/A N/A N/A N/A	N/A N/A N/A N/A	N/A N/A N/A N/A N/A	N/A N/A N/A N/A N/A
MPD FISH Panel CLL Extended FISH Panel Myeloma IGH Reflex FISH Panel Eosinophil AEL-CEL FISH Panel NHL B-Cel FISH Panel NHL T-Cell FISH Panel	5-931 5-931 5-931 7-921/1075486, 2 7-021	(FISH) Fluorescent in alsa Hybridization (FISH)	N/A N/A N/A N/A N/A N/A N/A	16 16 16 16 16 16 16 16 16 16 16 16 16 1	9898 for current reference range See report or contact lab at 614-293- 9898 for current reference range See report or contact lab at 614-293- 9898 for current reference range See report or contact lab at 614-293- 9898 for current reference range See report or contact lab at 614-293- 9898 for current reference range See report or contact lab at 614-293- 9898 for current reference range See report or contact lab at 614-293- 9898 for current reference range See report or contact lab at 614-293- 9898 for current reference range See report or contact lab at 614-293- 9898 for current reference range See report or contact lab at 614-293-	N/A N/A N/A N/A N/A N/A N/A	NA NA NA NA NA NA	NA NA NA NA NA NA NA NA NA	N/A N/A N/A N/A N/A N/A N/A

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Acid Fast Bacilli Culture and Smear	Acid Fast Culture	Culture; Susceptibility testing performed based on established lab	Bactec/Bruker Daltonics MicroFlex	N/A	Collect time is required for each specimen submission. Normal is	Presence of Acid-Fast Bacilli	N/A	N/A	N/A
		guidelines			negative. Collect time is required for each				
Acid Fast Bacilli Smear	AFB Smear	Smear	N/A	N/A	specimen submission. Normal is negative.	Presence of Acid-Fast Bacilli	N/A	N/A	N/A
Acinetobacter Culture Actinomyces, Screen	N/A N/A	Surveillance Culture Gram stain	Vitek N/A	N/A N/A	Negative Negative	N/A N/A	N/A N/A	N/A N/A	N/A N/A
Affirm Test (Vaginitis DNA Probe)	Affirm	Nucleic Acid Hybridization	BD Microprobe Processor	N/A	Candida = negative Gardnerella = negative	N/A	N/A	N/A	Negative / Positive
ED Only Anaerobe ID	Anaerobic Identification	Culture	Bruker Dultonics MicroFlex	N/A	Trichomonas = negative N/A	N/A	N/A	N/A	N/A
Anaerobic Culture	Anaerobe Culture	Culture; Susceptibility testing performed based on established lab	Bruker Daltonics MicroFlex	N/A	Collect time is required for each specimen submission	N/A	N/A	N/A	N/A
Atypical Bacterial Pneumonia,	Atypical Bacterial Pneumonia	guidelines PCR	BioFire	N/A	Not Detected	N/A		N/A	Not Dected / Detected
PCR	Panel Autoclave Spore Check						Package Insert		
Autoclave Spore Check	Assert	Steam sterilization Smear; Culture; Susceptibility testing	N/A	N/A	Negative	N/A	N/A	N/A	Negative / Positive
Bacterial Culture and Direct Smear, Lesion, Tissue, Device	Routine Culture and Smear	performed based on established lab guidelines	N/A	N/A	No growth	See critical call list for organisms requiring notification.	Validation	N/A	N/A
Bacterial vaginosis Panel	BV	TMA - transcription-mediated amplification	Hologic Panther Aptima kit	N/A	Negative	N/A	Package Insert; Clinical Data	N/A	Negative, Positive
Beta Strep, Vaginal Screen	Group B Streptococcus Testing by PCR	Concentration in LIM broth for > 18 hours followed by real-time PCR testing for GBS DNA sequence	BD MAX	N/A	Negative	N/A	Validation	N/A	Negative / Positive
Beta Strep, Vaginal Screen, Reflex Susceptibility for Penicillin Allergy	GBS, Streptococcus agalactiae	Concentration in LIM broth for > 18 hours followed by real-time PCR testing for GBS DNA sequence	BD MAX	N/A	Negative	N/A	Validation	N/A	Negative / Positive
BK Virus DNA PCR, Quant,	N/A	Real-Time PCR	3M Integrated Cycler	copies/mL	<500	N/A	Validation	500-10,000,000,000	500-endpoint
BK Virus DNA Qn, PCR,	BKBP	Real-Time PCR	3M Integrated Cycler	copies/mL	<500	N/A	Validation	500-5,000,000	500-5,000,000
Plasma Blood Culture, AFB, Mycobacteria	Blood, acid fast	Culture; Susceptibility testing performed based on established lab guidelines	Bruker Daltonics MicroFlex	N/A	Reference Range-Negative Collect time is required for each	Growth	N/A	N/A	N/A
Blood Culture, Fungus	N/A	Culture; Susceptibility testing performed based on established lab guidelines	Bruker Daltonics MicroFlex	N/A	Reference Range-Negative. Collect time is required for each specimen	Growth	N/A	N/A	N/A
Blood Culture, Pediatric	N/A	Culture; Susceptibility testing performed based on established lab	BioMerieux Virtuo/Bruker	N/A	Submission No growth	Growth	N/A	N/A	N/A
Diood Culture, I Culture		guidelines	Dultonics MicroFlex		. to gotta			10.7	
Blood Culture	N/A	Culture; Susceptibility testing performed based on established lab guidelines	Bruker Daltonics MicroFlex, BioMerieux Virtuo, Vitek	N/A	No growth	All first time positive blood cultures are called with organism morphology details. Any additional positives after 48 hours requires an additional call. If Gram negative resistance marker or vanA, vanB is detected on Nanosphere an additional call is made.	N/A	N/A	N/A
Blood Product Protocol	N/A Transfusion Reaction, Blood	Culture	BioMerieux Virtuo BioMerieux Virtuo	NA NA	Negative	Growth	N/A	N/A	N/A
Blood, Transfusion Reaction	Product Culture	Culture		NA N/A	Negative	Growth N/A	N/A Package insert; in-house validation;	N/A N/A	N/A Namina / Position
	BMT C. diff by PCR	PCR Culture; Susceptibility testing	BD Max	N/A	Negative	N/A	literature	N/A	Negative / Positive
Body Fluid Culture and Direct Smear	Sterile fluid culture	performed based on established lab guidelines	Vitek/Bruker Daltonics MicroFlex	N/A	N/A	N/A	N/A	N/A	N/A
Candida/ Trichomonas Panel	CV/TV	Transcription-mediated amplification	Hologic Panther Aptima kit	N/A	Not Detected	N/A	Package Insert; Clinical Data	N/A	Not Detected/ Detected
C difficile by PCR (Clostridium difficile toxin)	N/A	PCR	BD MAX	N/A	Negative	N/A	N/A	N/A	Negative / Positive
Candida auris Screen by PCR	Candida auris Screen	Real-Time PCR Culture; Susceptibility testing	DiaSorin Vitek/Bruker Daltonics	N/A	Not Detected Collect time is required for each	Detected	PI: Literature	N/A	Not Detected/ Detected
CAPD Fluid Bacterial Culture	N/A	performed based on established lab guidelines	MicroFlex	N/A	specimen submission.	N/A	N/A	N/A	N/A
Catheter Tip Culture	N/A	Culture	Vitek/Bruker Daltonics MicroFlex	N/A	Negative. Vascular Catheter tip cultures are interpreted in conjunction with blood culture results.	Growth	N/A	N/A	N/A
Chlamydia and Gonorrhea	Chlamydia trachomatis & Neisseria gonorrhoeae NAAT	TMA - transcription-mediated	Hologic Aptima Combo 2 Assay	N/A	Not Detected	N/A	Package Insert	N/A	N/A
Amplified CMV by PCR, Quantitative,	Testing	amplification	on Panther				_		
Blood EBV by PCR, Quantitative,	CMV Viral Load, CMV PCR	Real-Time PCR	Abbott	IU/mL	<50	N/A	Literature / History	50-156,000,000	50-156,000,000
Blood	EBV Viral Load, EBV PCR	Real-Time PCR	3M Integrated Cycler	IU/mL	<1,000	≥10,000	Validation	1,000-5,000,000	1,000-5,000,000 Not Detected, Detected <10,000,
EBV Rapid PCR, CSF Only	EBV PCR, EBV CSF	Real-Time PCR	3M Integrated Cycler	IU/mL	Not Detected		Validation	1-10.000	Not Detected, Detected ~10,000,
	27/4	TREE		N//		≥10,000		-,	Detected >10.000
Fungal Susceptibility Testing	N/A	TREK panel Culture; Susceptibility testing	N/A	N/A	N/A Collect time is required for each	N/A	N/A	N/A	N/A
Fungus Culture	N/A N/A	Culture; Susceptibility testing performed based on established lab guidelines		N/A N/A	N/A Collect time is required for each specimen submission. No growth.		N/A N/A	-,	Detected >10.000 N/A N/A
	N/A N/A Calcofluor White fluorescent	Culture; Susceptibility testing performed based on established lab	N/A		N/A Collect time is required for each	N/A	N/A	N/A	N/A
Fungus Culture Fungus Culture (Skin, Hair, Nails)	N/A N/A	Culture; Susceptibility testing performed based on established lab guidelines Culture	N/A N/A N/A	N/A N/A	N/A Collect time is required for each specimen submission. No growth. Collect time is required for each specimen submission.	N/A Growth N/A	N/A N/A N/A	N/A N/A N/A	N/A N/A N/A
Fungus Culture Fungus Culture (Skin, Hair, Nails) Fungus Smear	N/A N/A Calcofluor White fluorescent stain	Culture; Susceptibility testing performed based on established lab guidelines Culture Smear Smear when indicated; Culture; Susceptibility testing performed	N/A N/A N/A N/A N/A Vitek/Bruker Daltonics	N/A N/A N/A	N/A Collect time is required for each specimen submission. No growth. Collect time is required for each specimen aubmission. Negative Normal flora or no growth, depending	N/A Growth N/A Positive for fungal elements See critical call list for organisms that require a call. See Critical Call procedure for	N/A N/A N/A N/A	N/A N/A N/A N/A	N/A N/A N/A N/A
Fungus Culture Fungus Culture (Skin, Hair, Naih) Fungus Smear Genital Culture, Bacterial Gram Stain	N/A N/A Calcofluor White fluorescent stain Vaginal, Cervical, Urethral	Culture: Susceptibility testing performed based on established lab guidelines Culture Smear Smear who indicated: Culture; Susceptibility testing performed based on established lab guidelines Smear	N/A N/A N/A N/A N/A Viek/Bruker Daltonics MicroFlex N/A	N/A N/A N/A N/A N/A	N/A Collect time is required for each specimen submission. No growth. Collect time is required for each specimen submission. Negative Normal flora or no growth, depending on site	N/A Growth N/A Positive for fungal elements See critical call list for organisms that require a call. See Critical Call procedure for list of sources that are called to physician/runse	N/A N/A N/A N/A N/A N/A N/A N/A	N/A N/A N/A N/A N/A N/A	N/A N/A N/A N/A N/A N/A N/A
Fungus Culture Fungus Culture (Skin, Hair, Naih) Fungus Smear Genital Culture, Bacterial Gram Stain H. Pylori Urea Breath Test	N/A N/A Calcofluor White fluorescent stain Vaginal, Cervical, Urethral	Culture: Susceptibility testing performed based on established lab guidelines Culture Sanear Sanear when indicated; Culture; Sanear when indicated; Culture; Susceptibility esting performed based on established lab guidelines Sanear Infrared Spectrophotometry	N/A N/A N/A N/A N/A Vitel/Bruker Daltonics MicroFlex	N/A N/A N/A N/A N/A N/A N/A	N/A Collect time is required for each specimen submission. No growth. Collect time is required for each specimen submission. Negative Normal flors or no growth, depending on site Negative Cut-off value is 2.4 for adults and 10.6 for children 3-17 years.	N/A Growth N/A Positive for fungal elements See critical call list for organisms that require a call. See Critical Call procedure for	N/A N/A N/A N/A N/A	N/A N/A N/A N/A N/A	N/A N/A N/A N/A N/A
Fungus Culture Fungus Culture (Skin, Hair, Naih) Fungus Smear Genital Culture, Bacterial Gram Stain	N/A N/A Calcofluor White fluorescent stain Vaginal, Cervical, Urethral	Culture: Susceptibility testing performed based on established lab guidelines Culture Smear Smear who indicated: Culture; Susceptibility testing performed based on established lab guidelines Smear	N/A N/A N/A N/A N/A Viek/Bruker Daltonics MicroFlex N/A	N/A N/A N/A N/A N/A	N/A Collect time is required for each specimen submission. No growth. Collect time is required for each specimen submission. Negative Normal flora or no growth, depending on site Negative Cut-off value is 2.4 for adults and	N/A Growth N/A Positive for fungal elements See critical call list for organisms that require a call. See Critical Call procedure for list of sources that are called to physician/runse	N/A N/A N/A N/A N/A N/A N/A N/A	N/A	N/A
Fungus Culture Fungus Culture (Skin, Hair, Naih) Fungus Smear Genital Culture, Bacterial Gram Stain H. Pylori Urea Breath Test	N/A N/A Calcofloor White fluorescent stain Vaginal, Cervical, Urethral N/A UBT for H. pylon, BreathTek	Culture: Susceptibility testing performed based on established lab guidelines Culture Sanear Sanear when indicated; Culture; Sanear when indicated; Culture; Susceptibility esting performed based on established lab guidelines Sanear Infrared Spectrophotometry	N/A N/A N/A N/A N/A N/A Vitch-flusker Daltonics MicroFlex N/A Otsuka UBiT POCone	N/A N/A N/A N/A N/A N/A N/A U/mL (log U/mL) U/mL	N/A Collect time is required for each governer submission. No growth. Collect time is required for each specimen submission. Negative Negative Normal flora or no growth, depending on site Normal flora or no growth, depending to state Normal flora or no growth, depending to state Cut-off value is 2.4 for adults and 10.0 for shildren 3-17 years (-1.0) (-1.0)	N/A Growth N/A Positive for fangal elements See critical call list for organisms that require a call. See Critical Call procedure for list of sources that are called to suboxistim/mume N/A	N/A N/A N/A N/A N/A N/A N/A N/A Package Insert	NA NA NA NA NA NA NA NA NA 10-1000,000,000 (1.00-9.00) 12-100,000,000	N/A
Fungas Culture Fungas Culture Sulis, Hair, Nath) Fungas Sincer Genital Culture, Bacterial Gram Stain II. Pylori Urea Breath Test Hepatitis B DA Hepatitis C by PCR, Quant HIV Yiral Land RNA PCR	N/A N/A N/A Calcoftee White fluorescent step of the fluorescent step of the fluorescent N/A UBT for H. pylori, BreathTek HBV Viral Load	Culture Succeptibility toting performed based on cutsibilitied lab middlens Culture Sensor Sensor Sensor been indicated. Culture: Succeptibility testing performed based on established lab guidelines Sensor Infrared Spectrophotometry Real-Time PCR	N/A N/A N/A N/A N/A Vitel-Bruker Daltonies MicroFlex N/A Otsuka Ulbit POCone Abbott	N/A N/A N/A N/A N/A N/A N/A N/A	NA. NA. Collect time is required for each specieton where the provide of provide. Collect time is required for each specieton. We provide the specieton of t	N/A Growth N/A Positive for fangal elements See critical call list for organisms that require a call. See Critical Call procedure for list of sources that are called to selection-instance N/A N/A	N/A N/A N/A N/A N/A N/A N/A N/A V/A V/A V/A Package Insert Validation/ Package Insert	NA AA AA A	N/A
Funges Culture Funges Culture (Salin, Hair, Nalls) Funges Smear Genital Culture, Bacterial Gram Stain II, Pylori Urea Breath Test Bepatitis B DNA Hepatitis C by PCR, Quant	N/A N/A N/A Calcofluor White fluorescent stain Vaginal, Cervical, Urethral N/A UBT for IL pylori, BreathTek HBV Viral Load IKCV Viral Load IKCV Viral Load IREPS Singlets Viral I and E	Culture: Succeptability testing performed based on catabilised lab passiones. Culture: Sonear	N/A N/A N/A N/A N/A N/A Vind-thrader Dalionics MicroFlex N/A Osuska UBST POCone Abbott Abbott	N/A N/A N/A N/A N/A N/A N/A U/mL (log U/mL) (log U/mL) (log U/mL)	N/A Collect time is required for each governme submission. No growth. Collect time is required for each specimen submission. Negative Normal form or no growth, depending on on ron growth, depending on on the growth of the submission. Negative Cut-off value is 2.4 for edules and 10.0 for falles and (-1.00) (-1.00)	N/A Growth N/A Positive for fungal elements See critical call list for organisms that require a call. See Critical Call procedure for late of surveyer that are called to short-institutes N/A N/A N/A	N/A N/A N/A N/A N/A N/A N/A N/A V/A Package Insert Validation/ Package Insert Validation/ Package Insert	N/A N/A N/A N/A N/A N/A N/A N/A N/A 10-1,000,000,000 12,100,000,000 12,100,000,000 12,100,000,000 12,100,000,000 12,100,000,000 12,100,000,000 12,100,000,000	N/A N/A N/A N/A N/A N/A N/A Negative / Positive 10-1,000,000,000 11,000,000,000 12,100,000,000 11,000,0000 11,000,0000 11,000,000
Funges Culture Funges Culture (Sain, Hair, Nahl) Funges Smear Genital Culture, Bacterial Gram Stain II. Pyfori Ura Breath Test Hepatitis B DNA Hepatitis C by PCR, Quant HIV Viral Load RNA PCR	N/A N/A Calcolouse White fluorescent state of the fluorescent state o	Culture Susceptibility totaling perferrand based on catalibated tab perferrand based on catalibated tab perferrand based on catalibated tab perferrand based on substantial perferrand based on catalibated tab gastelance. Somer whom indicated; Culture: Somer substantial tab gastelance. Somer substantial tab gastelance. Infrared Spectrophotometry Real-Trane PCR Real-Trane PCR	N/A N/A N/A N/A N/A N/A Vitel-Bruker Dallomies MeroFlex N/A Oraska UBiT POCone Abbott Abbott Abbott	N/A N/A N/A N/A N/A N/A N/A N/A	NA Collect time is required for each governm submission. No growth. Collect time is required for each section in the section and the section and the section and the section. Negative Normal flora or no growth, depending on the section of the section in 2.4 for solubs and 10.0 for children 3.17 was -(40 (-10.00) (-12.00) (-12.00) (-13.	N/A Growth N/A Positive for fungal elements See critical call list for organisms that require a call. See Critical Call procedure for int of sources that are alled to see the control of the control of the N/A N/A N/A N/A	N/A N/A N/A N/A N/A N/A N/A N/A Package Insert Validation/ Package Insert Validation/ Package Insert Validation/ Package Insert	N/A	N/A N/A N/A N/A N/A N/A N/A N/A
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Funges Culture Funges Culture [Sulin, Hair, Nalis) Fungus Smear Genital Culture, Bacterial Gram Stain II. Pylori Urea Breath Test Hepatitis B DNA Hepatitis C by PCR, Quant HIVViral Load RNA PCR Management of the Company of the Company Hiv Tight Load RNA PCR And Hepatitis C by PCR, Pinid Lesion History Dead RNA PCR Insumacoungressived Respiratory Paud Influenza AB, RNY be PCR Legionella Environ Legionella Environ Lower Respiratory Culture Legionella Environ Lower Respiratory Culture Legionella Culture Legionella Culture Legionella Culture Legionella Culture Respiratory Culture, Respiratory Macrosconica Arthromod. Meningitis' Encephalitis Pand. Meningitis' Encephalitis'	N/A N/A N/A N/A Calcolous White fluorescent state of the control of the contr	Culture Succeptibility totaling performed based on calabled lab paidefane. Culture Seneral Sen	N/A N/A N/A N/A N/A N/A N/A N/A	N/A N/A N/A N/A N/A N/A N/A N/A	N/A Collect time is required for each specimes submission. No growth. Collect time is required for each specimes submission. Negative Normal flors or in growth, depending on site. Normal flors or in growth, depending on site. Normal flors or in growth, depending on site. Cut-off submission. 10.0 for shillment. 1/1 years. 410 (=1.00) 412 (=1.00) (=1.00) Nort Detected	N/A Growth N/A Growth N/A Positive for fungal elements See critical call list for organisms that require a call. See Critical Call procedure for list of surrogardinary N/A N/A N/A N/A Positive in CSF N/A	N/A N/A N/A N/A N/A N/A N/A N/A	N/A	N/A N/A N/A N/A N/A N/A N/A N/A
Fungos Culture Fungos Culture Fungos Culture (Stills, Hair, Nalls) Fungos Sonear Genital Culture, Bacterial Gram Stain II. Pylori Urea Breath Test Hepatitis B DNA Hepatitis C by PCR, Quant IIIV Viral Load RNA PCR Hepatitis C by PCR, Pluid Lesion Immunocompromised Respiratory Panel Influenza AB Rapid Molecular Influenza AB Rapid Molecular Influenza AB Rapid Molecular Legionella Environ Lower Respiratory Culture Legionella Culture Lejonella Culture Lejonella Culture Respiratory Culture, Bacterial Meningtis / Encephalitis Panel, Meningtis	N/A N/A N/A N/A N/A Calcollow White fluorescent sets of the process of the p	Culture Succeptibility toting preferred based or established the patients of t	N/A N/A N/A N/A N/A N/A N/A Vite/Braker Daltonies MicroFlex N/A Otsoka Ulbit POCone Abbott Abbott Abbott DiaSorin BioFire Montemated Cycler Akee	N/A	NA. Sollect time is required for each operation and in the control of the contro	N/A Growth N/A Growth N/A Positive for fungal elements See critical call list for organisms that require a call. See Critical call list for organisms that require a call. N/A N/A N/A N/A N/A Positive in CSF N/A N/A N/A N/A N/A N/A N/A N/A N/A N/	N/A N/A N/A N/A N/A N/A N/A N/A	N/A	N/A N/A N/A N/A N/A N/A N/A N/A

Rapid Strep A, Molecular Rapid Strep, Strep A utilizing isothermal nucleic acid amoldification Rectal Screening for Cipro Ciprofloxacin Resistance Culture							
Rectal Screening for Cipro Ciprofloxacin Resistance Culture	Abbott	N/A	Negative	N/A	N/A	N/A	Negative / Positive
	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Resistance Screening SARS-CoV-2 Rapid Antigen COVID antigen test Lateral flow immunoassay	Quidel Quickvue SARS Antigen test	N/A	Negative	N/A	Package Insert	N/A	Negative / Positive
SARS-COV-2 RAPID Rapid COVID Isothermal Nucleic Acid Amplification	Abbott	N/A	Not Detected	N/A	Abbott ID NOW Rapid Covid package	N/A	Detected / Not Detected
Real Time PCR	DiaSorin Alinity m	27/4	N. D I	277	niser.	277	
Novel Coronavirus PCR COVID-19 Transcription Mediated Amplification	Panther	N/A	Not Detected	N/A	N/A	N/A	Detected / Not Detected
Screen VRE Vancomycin Resistant Culture on selective agar.	N/A	N/A	Negative for Vancomycin Resistant Enterococcus.	N/A	N/A	N/A	N/A
Screen, Yeast N/A Culture Screen: MRSA - Baby NICU MRSA Culture	Bruker Dultonics MicroFlex N/A	N/A N/A	Negative Negative	N/A N/A	N/A N/A	N/A N/A	N/A N/A
Screen: MRSA/MSSA Respiratory Staphylococcus Screen. Staph Screen Real-Time PCR	BD MAX	N/A	Negative	N/A	Package Insert	N/A	N/A
Sterility Check N/A Culture	Vitek/Bruker Daltonics MicroFlex	N/A	Negative	LOOP Specimens will be called to the coordinator	N/A	N/A	N/A
Strep Pneumoniae Antigen, Urine N/A Immunochromatographic membra assay.	Binax NOW Vitek/Bruker Dultonics	N/A	Negative	N/A	Binax NOW Package Insert	N/A	Negative / Positive
Susceptibility Susceptibility and Identification N/A Upper Respiratory Culture, Throat Culture PESN Culture	MicroFlex	N/A	N/A	N/A	N/A	N/A	N/A
Upper Respiratory Culture, Bacterial Throat Culture, RESN Culture, Susceptibility testing Urine Culture N/A Performed based on established I	Bruker Daltonics MicroFlex	N/A	normal flora Culture includes colony count.	N/A	N/A	N/A	N/A
Urine Culture N/A performed based on established I guidelines	b N/A	CFU/mL	Collect time is required for each specimen submission.	N/A	N/A	N/A	N/A
Varicella Zoster By PCR, Skin VZVPCR Real Time PCR	DiaSorin	N/A	Not Detected	N/A	Package Insert / Literature	N/A	Detected / Not Detected
ABO / RH(D) Typing Blood Type, ABORH Agglutination	Manual: N/A Automated: Ortho Manual: N/A	N/A	A, B, O, or AB and Rh positive or Rh Negative A, B, O, or AB and Rh positive or Rh	N/A	N/A	N/A	N/A
ABORH Type Reconfirmation Confirmatory Type Agglutination ABORH Not Valid for	Automated: Ortho Manual: N/A	N/A	negative A, B, O, or AB and Rh positive or Rh	N/A	N/A	N/A	N/A
ABOKII Not Value for Blood Type, ABOD Agglutination Transfusion Blood Type, ABOD Agglutination Antibody ID N/A Agglutination	Automated: Ortho N/A	N/A N/A	nemtive N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A
Antibody Screen Indirect Antiglobulin Test, ABS Agglutination	Manual: N/A Automated: Ortho	N/A	Negative / Positive	N/A	N/A	N/A	N/A
Antibody Titer ABTIT Agglutination [LAB275]	N/A	N/A	Reciprocal of serial dilution	All antigens but K have a critical value of 32, K has a critical value	Alloimmunization Committee	N/A	N/A
Antiren Tynins, Red Cell N/A Agglutination	N/A N/A	N/A N/A	Negative / Positive N/A	of 8 N/A N/A	N/A N/A	N/A N/A	N/A N/A
Baby Type and DAT (Direct Antiglobulin Test) HEELS, Heelstick Evaluation Agglutination	N/A	N/A	For type- A, B, O, or AB and Rh positive or Rh Negative, Antibody Screen Positive or Negative, DAT	Positive DAT	N/A	N/A	N/A
Cold Assilutinin Titer N/A Assilutination	N/A	N/A	Positive or Negative Reciprocal of serial dilution For type- A, B, O, or AB and Rh	N/A	N/A	N/A	N/A
Cord Blood Evaluation N/A Agglutination	N/A	N/A	positive or Rh Negative, DAT Positive or Negative	Positive DAT	N/A	N/A	N/A
Crossmatch N/A Agglutination	N/A	N/A	Compatible, Incompatible, Least incompatible	N/A	N/A	N/A	N/A
Direct Antiglobulin Test (DAT) DAT, Direct Antiglobulin Agglutination	N/A	N/A	Negative / Positive	N/A	N/A	N/A	N/A
Donor unit retype Reconfirmation of donor units Agglutination	Manual: N/A Automated: Ortho	N/A	A, B, O, or AB and Rh positive or Rh Negative	N/A	N/A	N/A	N/A
Eluate Elution, RBC Agglutination Fetal Screen Workup N/A Agglutination	N/A Immucor	N/A N/A	N/A Nesstive / Positive	New antibody identified in Eluate N/A	N/A N/A	N/A N/A	N/A N/A
RHOIG Evaluation Rhogam Evaluation Agglutination Transfusion Reaction Battery N/A Agglutination	N/A N/A	N/A N/A	N/A N/A	N/A All transfusion reactions	N/A N/A	N/A N/A	N/A N/A
Type and Screen N/A Agglutination	Manual: N/A Automated: Ortho	N/A	For type- A, B, O, or AB and Rh positive or Rh Negative, Antibody	N/A	N/A	N/A	N/A
Type and Screen-Not for	Manual: N/A		Screen Positive or Nemtive For type- A, B, O, or AB and Rh				
Transfusion Aggiunnation	Automated: Ortho	N/A	positive or Rh Negative, Antibody Screen Positive or Negative For type- A, B, O, or AB and Rh	N/A	N/A	N/A	N/A
Type and Screen - N/A Agglutination	Manual: N/A Automated: Ortho	N/A	positive or Rh Negative, Antibody Screen Positive or Negative	N/A	N/A	N/A	N/A
AFP Tumor Marker AFPTMR, AFP Two-Site Sandwich Immunoassa Chemiluminescent	Siemens Atellica IM	ng/mL	<8.1	N/A	Siemens AFP Package Insert 10995310 EN Rev. 03, 2020-02	2.2-1,000.0	2.2-1,000,000.0
Aldosterone ALDOS Chemiluminescent Immunoassa;	DiaSorin Liaison XL	ng/dL	Upright (serum) <39.20 Supine (serum) <23.20 Upright (EDTA) <35.30 Supine (EDTA)	N/A	Package insert	4.00-100.00	4.00-5,000.00
ANA Multiplex Screen N/A Multiplex flow immunoassav	Bioplex 2200	N/A	<23.60 Negative is Normal	N/A	Packase insert, textbook	N/A	Negative / Positive
ANA Multiplex Scrn With N/A Multiplex flow immunoassay Reflex	Bioplex 2200	N/A	Negative is Normal	N/A	Package insert, textbook	N/A	Negative / Positive
ANA Screen IFA ANAB Indirect Immunofluorescence Antibody Indirect Immunofluorescence Indirect Immunofluorescence	Werfen/ Inova	N/A	Negative	N/A	INOVA IFU 2018 Revision 7	N/A	Negative / Positive 1:80, 1:160, 1:320, 1:640, 1:1280,
ANA Titer* N/A Indirect immunoratorscence Antibody	Werfen/ Inova	N/A	Negative	N/A	INOVA IFU 2018 Revision 7 Siemens Anti-Thyroid Peroxidase	N/A	≥1:2560
Anti Microsomal Antibody MIAN, aTPO Chemiluminescent Immunoassa	Siemens Atellica IM	IU/mL	<60.0	N/A	Package Insert 10995280_EN Rev. 02, 2019-07	28.0-1,300.0	28.0-130,000.0
Anti Mitochondrial Antibody AMA Indirect Fluorescent Antibody	Werfen/ Inova	N/A	Negative	N/A	INOVA IFU 2019 Revision 21	N/A	Qualitative: Negative Positive Quantitative: 1:20 1:40 1:80 1:420 Qualitative:
Anti Neutrophil Cytoplasmic Antibody ANCA Indirect Fluorescent Antibody	Werfen/ Inova	N/A	Negative	N/A	INOVA IFU 2019 Revision 3	N/A	Negative / Positive Quantitative: 1:20, 1:40, 1:80, 1:160, 1:320, 1:640, >1:1280
Anti Parietal Antibody PCA Indirect Fluorescent Antibody	Werfen/ Inova	N/A	Negative	N/A	INOVA IFU 2019 Revision 21	N/A	Qualitative: Negative / Positive Quantitative: 1:20. 1:40. 1:80. 1:160. >1:320 Qualitative:
Anti Smooth Muscle Antibody SMA Indirect Fluorescent Antibody	Werfen/ Inova	N/A	Negative	N/A	INOVA IFU 2019 Revision 21	N/A	Negative / Positive Quantitative:
Anti-Proteinase 3 Ab Anti-PR3 Multiplex ImmunoFlow Assav Anti-Seleroderma Ab (Sc170) SCL70T Multiplex flow immunoassay	Bioplex 2200 Bioplex 2200	N/A N/A	Negative is Normal Negative is Normal	N/A N/A	Instructions for use manual Darkage insert teetbook	N/A N/A	1-20 1-40 1-80 1-160 >1-320 Negative / Positive
Anti-Scleroderma Ab (Scl70) SCL70T Multiplex flow immunoassay Auto Immune Abs. Multiplex BPRAB Multiplex flow immunoassay	Bioplex 2200 Bioplex 2200	N/A N/A	Negative is Normal Negative is Normal	N/A N/A	Package insert, textbook Package insert, textbook Package insert (Insert Code:	N/A N/A	Negative / Positive Negative / Positive
Beta 2 Microglobulin Scrum B2M Turbidimetry	The Binding Site Optilite	mg/L	0.80-2.34	N/A	INS043.OPT.A, Version: 09th August 2018)	0.30-20.00	0.30-40.00
BKR Free Testosterone N/A Calculation	Siemens Atellica IM	TESTF = ng/dL TESTP = %	Male TESTF = 1.74-15.20 Female TESTF = 0.04-0.81 Male TESTP = 0.90-2.80	N/A	Customer Bulletin	N/A	N/A
			Female TESTP = 0.40-3.00				
Calcitonin CALCIT, CALCT Two-Step Sandwich Immunoasse Chemiluminescent	Siemens Atenica iss	pg/mL N/A	0.40-3.00 Male: ≤13.38 Female: <9.53	N/A N/A	Siemens Calcitonin Package Insert RPBL1393R01 EN Rev. 01. 2019-04	1.89-1,800.00 N/A	1.89-180,000.00
Calcitosia CALCT, CALCT Two-Step Sandwich Immunoasse Communication Communication Communication Communication Communication Chromatia Antibody NA Multileck flow immunossay.	Bioplex 2200 Bioplex 2200	N/A N/A	0.40-3.00 Male: ≤13.38 Female: <9.53 Negative is Normal Negative is Normal	N/A N/A	RPBL1393R01 EN Rev. 01, 2019-04 Package insert, textbook Package insert, textbook	N/A N/A	Negative / Positive Negative / Positive
Calcitosis CALCIT, CALCT Two-Step Sandwich Immunosas Centramere B. Antibody CENTT Membraneses Chemutin Authbody N/A Multicles five immunoses CMY 1gG Ab CMVG CELIAN CONTRACT CONTRA	Bioplex 2200 Bioplex 2200 DiaSorin Linison XL	N/A N/A U/mL	0.40-3.00 Male: ≤13.38 Female: <9.53 Negative is Normal Negative is Normal Negative is Normal	N/A N/A N/A	RPBL1393R01 EN Rev. 01, 2019-04 Package insert, textbook Package insert textbook Package insert	N/A N/A N/A	Negative / Positive Negative / Positive Negative / Indeterminate / Positive
Calcinaia CALCT, CALCT Two-Sep Sandwich Immunosaic Constrainter B. Antibody CENTT Medical September Complements of Medical September Constraints of Constraints Antibody NA. Chembarinescent Constraints Constrain	Bioplex 2200 Bioplex 2200 Bionlex 2200 DiaSorin Liaison XL DiaSorin Liaison XL	N/A N/A U/mL U/mL	0.40-3.00 Male: ≤13.38 Female: <9.53 Negative is Normal Negative is Normal	N/A N/A N/A	RPBL1393R01 EN Rev. 01, 2019-04 Package insert, textbook Package insert textbook Package insert Package insert Siemens C-Peptide Package Insert	N/A N/A	Negative / Positive Negative / Positive
Calcinnia CALCT, CALCT Two-Sep Sandwich Immanosos Chemburinescent Autiliady Christians (CALCT) Chemburinescent Chemburinescent Christians (CALCT) Chemburinescent CALCT Chemburinescent CALCT (CALCT) Chemburinescent Immanosos (CALCT) (CALCT) CALCT (CALCT) CALCT (CALCT) Chemburinescent Immanosos (CALCT) (CALCT) Chemburinescent CALCT (CALCT) CALCT (CALCT	Bioplex 2200 Bionlex 2200 DiaSorin Liaison XL DiaSorin Liaison XL	N/A N/A U/mL	0.40-3.00 Male: <13.38 Female: <9.53 Negative is Normal Negative is Normal Negative is Normal Negative is Normal	N/A N/A N/A	RPBL1393R01 EN Rev. 01, 2019-04 Package insert, textbook Package insert Package insert	N/A N/A N/A N/A	Negative / Positive Negative / Positive Negative / Indeterminate / Positive Negative / Indeterminate / Positive
Calcitosia CALCIT, CALCIT Two-Step Sandwith Immunosas Chemiduminocent Chemiduminocent Chemiduminocent Chemiduminocent Multiples from immunosasy Chemiduminocent Multiples from immunosasy Chemiduminocent Calvi Igh Ab CMVG Chemiduminocent immunosasy Chemiduminocent chemiduminocent Calvi Igh Ab CMVM Chemiduminocent immunosasy Chemiduminocent immunosasy Chemiduminocent chemiduminocent chemiduminocent chemiduminocent chemiduminocent Calvi Igh Ab CMVM Chemiduminocent Calvi Igh Ab CMVM Chemiduminocent Chemiduminocent Calvi Igh Chemiduminocent Calvi Igh Chemiduminocent Calvi Igh Chemiduminocent Calvi Igh Cal	Bionics 2200 Bionics 2200 Bionics 2200 DiaSorin Liaison XL DiaSorin Liaison XL Siemens Atellica IM	N/A N/A U/mL U/mL ng/mL	0.40-3.00 Male: 513-38 Femule: 9-53 Negative is Normal 0.81-3.85	N/A N/A N/A N/A N/A	RPBL193R01 EN Rev 01, 2019-04 Package insert, textbook Package insert Package insert Package insert Siemens C-Peptide Package Insert 10997742 EN Rev. 03, 2021-06 Siemens C-Peptide Package Insert	N/A N/A N/A N/A N/A 0.05-25.00	Negative / Positive Neuntive / Positive Neuntive / Positive Negative / Indeterminate / Positive Negative / Indeterminate / Positive 0.05-5,000.00
Calcitusin CALCIT, CALCIT Two-Step Sandwich Immunosos Chembunitescent Chembunitescent Chembunitescent Chembunitescent Chembunitescent CALCIT CALCIT Multiples from immunososy CALCIT CALCIT Multiples from immunososy CALCIT CALCI	Sometro Attenta in Bioples 2200 Bionles 2200 Bionles 2200 DiaSorin Liaison XL DiaSorin Liaison XL Siemens Atellica IM	N/A N/A U/mL U/mL ng/mL	0.40-3.00 Mule: \$13.38 Fernale: 99.53 Negative in Normal 0.81-3.85	N/A N/A N/A N/A N/A N/A	RPBI 133ROI EN Rev. 07, 2019-04 Package innert, testbook Package insert Package insert Siemens C-Peptide Package insert 10997742 EN Rev. 03, 2021-06 Siemens C-Peptide Package Insert 10997742 EN Rev. 03, 2021-06 Siemens C-Peptide Package Insert 10997742 EN Rev. 03, 2021-06	N/A N/A N/A N/A N/A 0.05-25.00	Negative / Positive Negative / Positive Negative / Positive Negative / Indeterminate/ Positive Negative / Indeterminate/ Positive 0.055,000.00 0.055,000.00
Calcitusin CALCIT, CALCIT Two-Step Sandwich Immunosas Chembunitescent Chembuni	Beople 2200 Beoole 2200 Beoole 2200 Beoole 2200 Discorn Lision XI. DisSoria Lision XI. Siemens Atellica IM Siemens Atellica IM	N/A N/A U/ml. U/ml. ng/ml. ng/ml.	0.40-3.00 Male: \$13.38 Female: 9-53.58 Female: 9-53.78 Negative is Normal Negative is Normal Negative is Normal Negative is Normal 0.81-3.85 0.81-3.85	N/A N/A N/A N/A N/A N/A N/A	RPBI 1393R01 EN Rev. 01, 2019-04 Packase innert, testbook Packase innert, testbook Packase innert Package innert Package innert Package innert 1097742 EN Rev. 03, 2021-06 Siemens C-Peptide Package Innert 10997742 EN Rev. 03, 2021-06 Siemens C-Peptide Package Innert 10997742 EN Rev. 03, 2021-06 Siemens C-Peptide Package Innert 10997742 EN Rev. 03, 2021-06	N/A N/A N/A N/A N/A 0.05-25.00 0.05-25.00	Negative / Positive Negative / Positive Negative / Positive Negative Indeterminate/ Positive Negative Indeterminate/ Positive 0.05-5,000.00 0.05-5,000.00
Calcinain CALCT, CALCT Two-Sep Sandwich Immunosas Chembunitescent Calcination of the Insulia Clause Garage	Biophez 2009 Bionfez 2009 Bionfez 2009 Bionfez 2009 Discher Lation XI. Discher Lation XI. Siemens Atellica IM Siemens Atellica IM Siemens Atellica IM Siemens Atellica IM	NYA NYA Urml. Urml. Urml. ng/ml. ng/ml. ng/ml.	0.40-3.00 Male: \$21.38 Female: 96.55 Negative is Normal Negative is Normal Negative is Normal 0.81-3.85 0.81-3.85 0.81-3.85	N/A	RPBI 13980 EN Rev. 01, 2019-04 Packase insert, testbook Packase insert, testbook Packase insert Package insert Package insert Package insert 1099742 EN Rev. 03, 2021-06 Siemens C-Poptide Package Insert 1099742 EN Rev. 03, 2021-06 Siemens C-Poptide Package Insert 1099742 EN Rev. 03, 2021-06 Siemens C-Poptide Package Insert 1099742 EN Rev. 03, 2021-06 Siemens C-Poptide Package Insert 1099742 EN Rev. 03, 2021-06 Siemens C-Poptide Package Insert 1099742 EN Rev. 03, 2021-06	NA NA NA NA NA NA 0.05-25.00 0.05-25.00 0.05-25.00	Neartice / Positive Neartice / Positive Neartice / Positive Neartice / Positive Negative Indeterminate Positive 0.05-5,000.00 0.05-5,000.00 0.05-5,000.00 0.05-5,000.00
Calcitusia CALCIT, CALCIT Two-Step Sandwich Immunosas Chemburities cent to Chemburities Cent Calcitus Chemburities Cent Calcitus Calcitus Chemburities Cent Calcitus Calcitus Chemburities Cent Calcitus	Biophe 2290 Bionite 200 Bionite 200 Bionite 200 Bionite 200 Discorn Lation XI. Discorn Lation XI. Siemen Atellica IM Siemens Atellica IM	NYA NYA NYA Urnd. Urnd. urnd. ng/ml. ng/ml. ng/ml. ng/ml. ng/ml. ng/ml. ng/ml.	0.40-3.00 Male: \$13.85 Female: 9-5.51 Negative: Mormal Negative: Mormal Negative: Mormal Negative: Mormal 0.81-3.85 0.81-3.85 0.81-3.85 0.81-3.85	N/A	RPBI 193R01 EN Rev. 01, 2019-04 Peckase insert, testbook Peckase insert, testbook Peckase insert Peckage insert Peckage insert Peckage insert Siemens C-Poptide Package Insert 10997742 EN Rev. 03, 2021-06 Siemens C-Poptide Package Insert 10997742 EN Rev. 03, 2021-06 Siemens C-Poptide Package Insert 10997742 EN Rev. 03, 2021-06 Siemens C-Poptide Package Insert 10997742 EN Rev. 03, 2021-06 Siemens C-Poptide Package Insert 10997742 EN Rev. 03, 2021-06 Siemens C-Poptide Package Insert 10997742 EN Rev. 03, 2021-06 Siemens C-Poptide Package Insert 10997742 EN Rev. 03, 2021-06	NA. NA. NA. NA. NA. NA. 0.65-25.00 0.65-25.00 0.65-25.00 0.65-25.00 0.65-25.00 0.65-25.00	Nearther / Positive Nearther / Positive Nearther / Positive Nearther / Positive Negative Indeterminate / Positive 0.05-5,000.00 0.05-5,000.00 0.05-5,000.00 0.05-5,000.00 0.05-5,000.00
Calcinum CALCIT, CALCIT Two-Step Sandwich Immunosos Chembunities Centre Chembunities C	Biophe 2290 Bionite 200 Bionite 2290 Siemens Atellica IM	N/A N/A N/A Urnd. Urnd. urnd. ng/ml. ng/ml. ng/ml. ng/ml. ng/ml. ng/ml. N/A N/A	0.40-3.00 Male: \$21.33 Female: 96.53 Negative is Normal Negative is Normal Negative is Normal 0.81-3.85 0.81-3.85 0.81-3.85 0.81-3.85 0.81-3.85	N/A	RPBI_193R01_EN Rev. 01, 2019-04 Peckage insert restbook Peckage insert Peckage insert Peckage insert Peckage insert Siemes C-Peptide Package insert Siemes C-Peptide Package Insert 10997742_EN Rev. 03, 2021-06 Peckage Insert 10997742_EN Rev. 03, 2021-06 Peckage Insert 10997742_EN Rev. 03, 2021-06 Peckage Insert Peckage Insert Peckage Insert Peckage Insert	NA. NA. NA. NA. NA. NA. 0.05-25.00 0.05-25.00 0.05-25.00 0.05-25.00 0.05-25.00 0.05-25.00 NS-25.00	Neartise / Positive
Calcinnia CALCT, CALCT Two-Sep Sandwich Immunosas Chemiumine Control of the Insulia Clause Telerance (Part o	Biophe 2290 Bionite 200 Bionite 2290 Siemens Atellica IM	NYA NYA NYA Urnd. Urnd. ug'nd. ng'nd. ng'nd. ng'nd. ng'nd. ng'nd. Nya Nya Nya Nya Nya Nya Nya Nya	0.40-3.00 Male: \$13.38 Female: 9-0.51 Negative is Normal Negative is Normal Negative is Normal 0.81-3.85 0.81-3.85 0.81-3.85 0.81-3.85 0.81-3.85 0.81-3.85 0.81-3.85 0.81-3.85 0.81-3.85 0.81-3.85 0.81-3.85	NYA	RPBIL193BOI EN Rev. 01, 2019-04 Pockase innert, testbook Pockase innert, testbook Pockase innert, testbook Pockase innert Pockage innert Pockage innert Seitmens C-Poptide Pockage innert 1099712, EN Rev. 03, 2021-06 Siemens C-Poptide Pockage innert 1099712, EN Rev. 03, 2021-06 Siemens C-Poptide Pockage innert 1099712, EN Rev. 03, 2021-06 Siemens C-Poptide Pockage innert 1099712, EN Rev. 03, 2021-06 Siemens C-Poptide Pockage innert 1099712, EN Rev. 03, 2021-06 Siemens C-Poptide Pockage innert 1099712, EN Rev. 03, 2021-06 Siemens C-Poptide Pockage innert 1099712, EN Rev. 03, 2021-06 Siemens C-Poptide Pockage innert 1099712, EN Rev. 03, 2021-06 Siemens C-Poptide Pockage innert 1099712, EN Rev. 03, 2021-06 Siemens C-Poptide Pockage innert 1099712, EN Rev. 03, 2021-06	NA. NA. NA. NA. NA. 0.65-25.00 0.05-25.00 0.05-25.00 0.05-25.00 0.05-25.00 0.05-25.00 0.05-25.00	Negative / Positive Negative / Positive Negative / Positive Negative Indeterminate/ Positive Negative Indeterminate/ Positive 0.05-5,000.00 0.05-5,000.00 0.05-5,000.00 0.05-5,000.00 0.05-5,000.00 0.05-5,000.00 Negative / Positive
Calcinoin CALCT, CALCT Two-Sep Sandwich Immunoson Chemitan Aufflord Chemitan Aufflord CNV 1gf. Ab CNV 2gf. Ab CNV 3gf. Ab CNV	Biophes 2000 Boothes 2000 Siemens Adellica IM Biophes 2000	NNA NNA Unst. Unst. Unst. ag'nd. ng'nd. ng'nd. ng'nd. ng'nd. ng'nd. ng'nd. Ng'nd. ug'nd. ug'nd. ug'nd. ug'nd. ug'nd. ug'nd. ug'nd. ug'nd. Unst. ug'nd. Unst. ug'nd. Unst. ug'nd.	0.40-3.00 Male: \$21.33 Female: 96.53 Female: 96.55 Female: 96.55 Negative is Normal Negative is Normal Negative is Normal 0.81-3.85 0.81-3.85 0.81-3.85 0.81-3.85 0.81-3.85 0.81-3.85 0.81-3.85 0.81-3.85 0.81-3.85	NYA	RPBI_193R01_EN Rev. 01, 2019-04 Peckage innert_testbook Peckage innert_testbook Peckage innert Peckage innert Peckage innert Siemen C-Peptide Puckage Innert 10997742_EN Rev. 03, 2021-06 Siemens C-Peptide Puckage Innert 10997742_EN Rev. 03, 2021-06 Peckage Innert 10997742_EN Rev. 03, 2021-06 Peckage Innert	NA. NA. NA. NA. NA. 0.65-25.00 0.65-25.00 0.65-25.00 0.65-25.00 0.65-25.00 0.65-25.00 0.65-25.00 0.65-25.00 0.65-25.00 0.65-25.00 0.65-25.00 0.65-25.00 0.65-25.00 0.65-25.00	Negative / Positive Negative / Positive Negative / Positive Negative / Indeterminate / Positive 0.05-5,000.00
Calcinain CALCT, CALCT Two-Sep Sandwich Immunosas Chemburniescent Mathbody CENTT Methods insumment Chemburniescent Mathbody CENTT Methods insumment Calcination of the Calcination of the Calcination of the Calcination of Calcination	Biophic 2009 Bioofice 2009 Siemens Atellica IM	NNA NNA NNA Ured. Ured. Ured. ng'red. NNA NNA NNA NNA NNA NNA NNA NNA NNA N	0.40-3.00 Male: \$13.38 Female: 9-051 Female: 9-051 Negative is Normal Negative is Normal Negative is Normal 0.81-3.85 0.81-3.85 0.81-3.85 0.81-3.85 0.81-3.85 0.81-3.85	NYA	RPBI 193801 EN Rev. 01, 2019-04 Pockase innert, testbook Pockase innert, testbook Pockase innert, testbook Pockase innert, testbook Pockase innert Pockage innert Seitmens C-Poptide Pockage innert 10997742 EN Rev. 03, 2021-06 Siemens C-Poptide Pockage innert 10997742 EN Rev. 03, 2021-06 Siemens C-Poptide Pockage innert 10997742 EN Rev. 03, 2021-06 Siemens C-Poptide Pockage innert 10997742 EN Rev. 03, 2021-06 Siemens C-Poptide Pockage innert 10997742 EN Rev. 03, 2021-06 Siemens C-Poptide Pockage innert 10997742 EN Rev. 03, 2021-06 Siemens C-Poptide Pockage innert 10997742 EN Rev. 03, 2021-06 Siemens C-Poptide Pockage innert 10997742 EN Rev. 03, 2021-06 Pockage innert Pockage innert Pockage innert Pockage innert 11200352 EN Rev. 06, 2021-06 Pockage innert Pockage inne	NA. NA. NA. NA. NA. NA. 0.65-25.00 0.05-25.00 0.05-25.00 0.05-25.00 0.05-25.00 0.05-25.00 0.05-25.00 0.05-25.00 0.05-25.00 0.05-25.00 NA. NA. NA. NA. NA. NA. NA. NA. NA. NA	Negative Positive
Calcitosis CALCIT, CALCT Continuore B Autibody Controller Battledy Controller Battledy Controller Battledy Controller Battledy Controller Battledy Controller Battledy NA Chroller Battledy Controller Battle	Biother Action As to State Sta	NNA NNA Und. Und. Und. ngrind. ngrind. ngrind. ngrind. ngrind. NNA NNA NNA NNA NNA NNA NNA NNA NNA NN	0.40-3.00 Male: \$1.138 Femile: 9-5.51 Femile: 9-5.51 Negative: st. Normal Negative is Normal Negative is Normal 0.81-3.85 0.81-3.8	NYA	RPBI 193801 EN Rev. 01, 2019-04 Package innert, testbook Package innert Package innert Package innert Package innert Package innert 10997742 EN Rev. 03, 2021-06 Siemens C-Poptide Package Innert 10997742 EN Rev. 03, 2021-06 Siemens C-Poptide Package Innert 10997742 EN Rev. 03, 2021-06 Siemens C-Poptide Package Innert 10997742 EN Rev. 03, 2021-06 Siemens C-Poptide Package Innert 10997742 EN Rev. 03, 2021-06 Siemens C-Poptide Package Innert 10997742 EN Rev. 03, 2021-06 Siemens C-Poptide Package Innert 10997742 EN Rev. 03, 2021-06 Siemens C-Poptide Package Innert 10997742 EN Rev. 03, 2021-06 Siemens C-Poptide Package Innert 10997742 EN Rev. 03, 2021-06 Siemens C-Poptide Package Innert 10997742 EN Rev. 03, 2021-06 Package Innert 10997742 EN Rev. 03, 2021-06 Package Innert 10997742 EN Rev. 03, 2021-06 Package Innert 11200182 EN Rev. 05, 2021-06 Package Innert 11200182 EN Rev. 06, 2021-07 Package	NA. NA. NA. NA. NA. NA. 0.65-25.00 0.65-25.00 0.65-25.00 0.65-25.00 0.65-25.00 0.65-25.00 NA. NA. NA. 3.00-1-500.00 NA. NA.	Neutric / Positive Neutric / Positive Neutric / Positive Neutric / Positive Negative / Indeterminate / Positive 0.05-5,000.00 0.05-5,000.00 0.05-5,000.00 0.05-5,000.00 0.05-5,000.00 0.05-5,000.00 0.05-5,000.00 0.05-5,000.00 0.05-5,000.00 0.05-5,000.00 0.05-5,000.00 0.05-5,000.00 Negative / Positive 1.00-3,000.00 Negative / Positive Negative / Positive 1.00,000 Negative / Positive

				1					Enzyme Activity Absent, Enzyme
G6PD, Qualitative	G6PD	Visual Fluorescence	Trinity Biotech	N/A	Enzyme Activity Present is Normal	N/A	Package Insert	N/A	Activity Indeterminate, Enzyme Activity Present
Growth Hormone	GRHR	CLIA	DiaSorin Liaison XL	ng/mL	Female: s6.88 Male: s1.23	N/A	Package insert [LIAISON® hGH ([REF] 310340), EN - 200/007-914, 06 - 2016-	0.05-80.00	0.05-1600.00
Hemorlobin AIC	AlCB	HPLC	Bio-Rad D-100	96	4.7-5.6 <5.0	N/A	101 Textbook	3.5-15.0	3.5-15.0
Hemoglobin Plasma, Screen	HGBPSC	Photometric	HemoCue	mg/dL	≥3.0	N/A	Operators Manual	30.0-2,100.0	30.0-Dilute to endpoint
Hemoglobin, Fetal	HF	HPLC	Variant II	%	<1.0 Hemoglobin A: ≥95.0	N/A	Package Insert, Textbook	1.0-40.0	1.0-40.0
Hemoglobinopathy Eval	Abnormal HGB Detection, HEPB	HPLC	Variant II	96	Hemoglobin A2: 2.1-3.3 Hemoglobin F: <1.0 Hemoglobin C: 0.0 Hemoglobin S: 0.0	N/A	Package Insert, Textbook	N/A	N/A
Hep A Ab, Total (IgG+IgM) Hep B Core Ab,Total	HAABG HBCBG	Competitive Direct Chemiluminescent Immunoassav 2-Wash Antigen Sandwich	Siemens Atellica IM Siemens Atellica IM	N/A N/A	Negative is Normal Negative is Normal	N/A N/A	Package Insert Package Insert	N/A N/A	Negative/ Positive Negative/ Positive
(IgG+IgM) Hen B Surf Az Neutralization	HBAGN	Immunoassay Specific Antibody Neutralization	Siemens Atellica IM	N/A	Negative is Normal	N/A	Package Insert	N/A	Negative/ Positive
Hepatitis A IgM Ab Henatitis B Core IgM Ab	HAABM HBCBM	2-Step IgM-Capture Immunoassay 2-Step IgM-Capture Immunoassay	Siemens Atellica IM	N/A N/A	Negative is Normal Negative is Normal	N/A N/A	Package Insert Package Insert	N/A N/A	Negative/ Positive Negative/ Positive
Hepatitis B Surface Antibody	HBSAB	Sandwich Direct Chemiluminescent Immunoassav Sandwich Direct Chemiluminescent	Siemens Atellica IM	N/A	Negative is Normal	N/A	Package Insert	N/A	Negative/ Positive
Hepatitis B Surface Antigen Hepatitis Be Antibody	HBSAG HBEB	Sandwich Direct Chemiluminescent Immunoassav Chemiluminescent Immunoassav	Siemens Atellica IM DiaSorin Liaison XL	N/A N/A	Negative is Normal Nonreactive is Normal	N/A N/A	Package Insert Package Insert	N/A N/A	Negative/Positive
Hepatitis Be Antigen Hepatitis C Antibody	HBEG HCAB	Sandwich 2-Step Immunoassay Indirect Sandwich Immunoassay	Siemens Atellica IM Siemens Atellica IM	N/A N/A N/A	Negative is Normal Negative is Normal	N/A N/A	Package Insert Package Insert	N/A N/A	Negative/ Positive Negative/ Positive
HIV 1 and 2 Antibodies HIV-1/HIV-2 Differentiation	HIV HIV12C	Sandwich 2-Step Immunoassay Immunochromatographic Assav	Siemens Atellica IM Bio-Rad Genius	N/A N/A	Nonreactive is Normal Nonreactive is normal	N/A N/A	Package Insert Package Insert	N/A N/A	Nonreactive/ Reactive Nonreactive / Reactive
HPV, High Risk, DNA	High Risk HPV with Genotyping	PCR	Roche Cobas x 480	N/A	Negative is Normal	N/A	Package Insert	N/A	Negative / Positive
HSV 1 And 2 IgG Antibody	HSVG12	Multiplex flow immunoassay	Bioplex 2200	N/A	Negative is Normal	N/A	Textbooks, HSV-1&2 IgG procedure, Package Insert	N/A	Negative / Indeterminate / Positive
HSV IgM Antibody	HSVM	ELISA - Manual	Gold Standard	N/A	Negative is Normal	N/A	Package Insert Textbooks, HSV-1&2 IgG procedure, Package Insert	N/A	Negative / Positive / Equivocal
Immunofixation, Serum	SIMFXB, Serum Protein Electrophoresis with	Electrophoresis	Sebia Capillarys 3	N/A	N/A	N/A	Package Insert	N/A	N/A
	Immunofixation	2-site Sandwich Direct	Siemens Atellica IM	IU/mL	s165.3			2.5-3000.0	2.5-3000.0
Immunoglobulin IgE Insulin	IgE, Total IRI	Chemiluminescent Immunoassay Two-Site Sandwich Immunoassay	Siemens Atellica IM	uIU/mL	3.0-25.0	N/A N/A	Reference Range Study 11.3.2016 Siemens Insulin Package Insert	0.5-300.0	0.5-1,500.0
Insulin Tolerance (Part of the	IKI	Chemiluminescent	Siemens Atellica IM	uiO/mL	3.0-25.0	N/A	10997752 EN Rev. 05, 2021-06	0.5-300.0	0.3-1,300.0
Insulin Glucose Tolerance Battery): -5 Minutes Insulin Tolerance (Part of the	INSULI	Two-Site Sandwich Immunoassay Chemiluminescent	Siemens Atellica IM	uIU/mL	3.0-25.0	N/A	Siemens Insulin Package Insert 10997752_EN Rev. 05, 2021-06	0.5-300.0	0.5-1,500.0
Insulin Glucose Tolerance Battery): 0 Minutes	INSUL2	Two-Site Sandwich Immunoassay Chemiluminescent	Siemens Atellica IM	uIU/mL	3.0-25.0	N/A	Siemens Insulin Package Insert 10997752_EN Rev. 05, 2021-06	0.5-300.0	0.5-1,500.0
Insulin Tolerance (Part of the Insulin Glucose Tolerance Battery): 2 Minutes	INSUL3	Two-Site Sandwich Immunoassay Chemiluminescent	Siemens Atellica IM	uIU/mL	3.0-25.0	N/A	Siemens Insulin Package Insert 10997752_EN Rev. 05, 2021-06	0.5-300.0	0.5-1,500.0
Insulin Tolerance (Part of the Insulin Glucose Tolerance Battery): 5 Minutes	INSUL4	Two-Site Sandwich Immunoassay Chemiluminescent	Siemens Atellica IM	uIU/mL	3.0-25.0	N/A	Siemens Insulin Package Insert 10997752_EN Rev. 05, 2021-06	0.5-300.0	0.5-1,500.0
5 Minutes Insulin Tolerance (Part of the Insulin Glucose Tolerance Battery): 10 Minutes	INSUL5	Two-Site Sandwich Immunoassay Chemiluminescent	Siemens Atellica IM	uIU/mL	3.0-25.0	N/A	Siemens Insulin Package Insert 10997752_EN Rev. 05, 2021-06	0.5-300.0	0.5-1,500.0
Insulin Tolerance (Part of the Insulin Glucose Tolerance Battery): 30 Minutes	INSUL6	Two-Site Sandwich Immunoassay Chemiluminescent	Siemens Atellica IM	uIU/mL	3.0-25.0	N/A	Siemens Insulin Package Insert 10997752_EN Rev. 05, 2021-06	0.5-300.0	0.5-1,500.0
Insulin-like Growth Factor 1	Somatomedin C, IGF1	One-step sandwich chemiluminescence immunoassav	DiaSorin Liaison XL	ng/mL	Age Dependent	N/A	Package Insert	10.0-1,000.0	10.0-1,000.0
Intact PTH (Intraoperative)	Intact PTH Rapid, RPTH	Two-site sandwich immunoassay	Siemens Atellica IM	pg/mL	14.0-72.0	N/A	Atellica product insert (PTH) REV 4, 2020/11	6.3-2,000.0	6.3-160,000.0
JO-1 Antibody Kappa Free Light Chains	ANA Screen Immunoglobulin Free Chains	Multiplex flow immunoassav Turbidimetry	Bioplex 2200 The Binding Site Optilite	N/A mg/L	Negative is Normal 3.9-26.0	N/A N/A	Package insert, textbook 2017 OSU Study	N/A 2.9-127.0	Negative / Positive 0.6-63,500.0
Kanna/Lambda Ratio Lambda Free Light Chains	Immunoelobulin Free Chains Immunoglobulin Free Chains	Turbidimetry Turbidimetry	The Binding Site Optilite The Binding Site Optilite	N/A mg/L	0.51-1.72 6.4-22.1	N/A N/A	2017 OSU Study 2017 OSU Study	N/A 5.2-139.0	N/A 1.3-139,000.0
Legionella Serogroup I Urinary Antigen	Legionella Urinary Ag	EIA	Binax Kit	N/A	Negative is Normal	N/A	Package Insert	N/A	Negative / Positive
Lvme Ab M Tuberculosis By Quantiferon	N/A QFT, M. Tuberculosis Antigen	Chemiluminescent Immunoassav Direct, sandwich Chemiluminescence	DiaSorin Liaison XL DiaSorin Liaison XL	N/A N/A	Negative is Normal N/A	N/A N/A	Package Insert Package Insert	N/A N/A	Negative / Positive Negative / Positive / Indeterminate
Monoclonal Prot Immuno,	Serum Monoclonal Protein	immunoassay							
				N/A	Negative is Normal	N/A	Package Insert		
Serum Mumps IgG Ab, Immune Status		Capillary Electrophoresis Multiplex flow immunoassay	Sebia Capillarys 3 Bioplex 2200	N/A N/A	Negative is Normal Positive	N/A N/A	Package Insert BioPlex2200 MMRV IgG Procedure	N/A N/A	N/A Negative-The absence of detectable IgG-
Mumps IgG Ab, Immune Status Myeloneroxidase Antibodies	Mumps Ab, IgG N/A				Positive Negative is Normal				
Mumps IgG Ab, Immune Status	Mumps Ab, IgG	Multiplex flow immunoassay	Bioplex 2200	N/A	Positive	N/A	BioPlex2200 MMRV IgG Procedure March 2010	N/A	Negative-The absence of detectable IgG- class antibodies to measles, mumps,
Mumps IgG Ab, Immune Status Myeloneroxidase Antibodies	Mumps Ab, IgG N/A Serum Electrophoresis, PSE, Serum Protein Electrophoresis	Multiplex flow immunoassay Multiplex ImmunoFlow Assay	Bioplex 2200 Bioplex 2200	N/A N/A	Positive Neastive is Normal	N/A N/A	BioPac200 AMRV IgG Posedure Met 2010 Instructions for use manual Package Insert Atellica product insert (PTH) REV 4.	N/A N/A	Negative-The absence of detectable IgG- class antibodies to measles, mumps, Negative / Positive
Mumps IgG Ab, Immune Status Mveloneroxidase Antibodies Protein Electrophoresis PTH Intact Quant. Cryptococcus Antigen,	Mumps Ab, IgG N/A N/A Scrum Electrophoresis, PSE, Serum Protein Electrophoresis with Reflex to Immunofixation	Multiplex flow immunoasay Multiplex ImmunoFlow Assav Electrophoresis Two-site sandwich immunoasay Lateral Flow Assay	Bioplex 2200 Biomlex 2200 Sebia Capillarys 3	N/A N/A g'dL	Positive Nenntive is Normal Albumin: 3.5-5 0 g/d. Alpha 1. 0.2-6 4 g/d. Alpha 2. 0.5-1 g/d. 0.5-1 g/d. 0.5-1 g/d. 0.6-1.5 g/d.	N/A N/A N/A	BioPies2200 AMRV IgG Procedure Marck 2010 Instructions for use manual Package Insert	N/A N/A N/A	Negative-The absence of detectable IgG- class antibodies to meades, mumps, Negative / Positive
Mumps IgG Ab, Immune Status Mveloneroxidase Antibodies Protein Electrophoresis PTH Intact	Mumps Ab, IgG N/A N/A Senum Electrophoresis, PSE, Serum Protein Electrophoresis with Reflex to Immunofixation	Multiplex flow immunoasay Multiplex ImmunoFlow Assav Electrophoresis Two-site sandwich immunoasay	Bioplex 2200 Biomlex 2200 Sebia Capillarys 3 Siemens Atellica IM	N/A N/A g/dL g/mL	Positive Negative is Normal Albumin: 3.5-5.0 g dt. Alpha 1: 0.2-0.4 g dt. Alpha 1: 0.3-1.2 0.5-1.1 g dt. Camusa: 0.5-1.3 g dt. 14.0-72.0	N/A N/A N/A N/A	BioPlex200 MMRV IgG Poscolure Marke 200 Instructions for use manual Package Insert Adelica product insert (PTH) REV 4, 2020 11	N/A N/A N/A N/A 6.3-2,000.0	Negative The absence of detectable [gG- class antibodies to meades, numps, Negative / Positive
Mumpo IgG Ah, Immune Status Myeloneroxidase Antibodies Protein Electrophoresis PTH Intact Quant. Cryptoceccus Antigeu, Blood	Mumps Ab. IgG N/A N/A Serum Electrophoresis, PSI. Serum Protein Electrophoresis with Reflex to Immunofitation IPTH N/A	Multiplex flow immunoussay Multiplex ImmunoFlow Assay Electrophoresis Two-site sandwich immunoussay Latent Flow Assay Macroscopic nontrepreneul	Bioples 2200 Bioples 2200 Sobia Capillarys 3 Simens Atellica IM Immuno-Mycologics Inc.	N/A N/A g'dL g'dL N/A	Positive Normal	N/A N/A N/A N/A N/A	BioPiecQ200 MMRV IgG Pocedure Marke 200 Instructions for use manual Package Insert Asellica product insert (PTH) REV 4, Package Insert	NA N/A N/A N/A N/A N/A 6.3-2,000.0	Negative The absence of detectable IgG- class atthledies to meales, numps, Nenative / Positive N/A N/A 6.3-160,000.0 12 - x12560
Mumps IgG Als, Immune Status Mvelouerusidase Antibodies Protein Electrophoresis PTH Intact Quant. Cryptosecus Antigon. Quantitative RPR Renin	Mumps Ab. IgG N/A N/A Senum Electrophoresis, PSE, Senum Protein Electrophoresis with Reflex to Immunofixation PTH N/A N/A	Multiplex flow immunossasy Multiplex firmuno/Forr Asser. Electrophoresis Electrophoresis Lateral Flow Assay Macroscopic nontreponenul flocculation Chemiluminescent Immunossasy	Bioples 2200 Biorles 2200 Biorles 2200 Sobis Capillarys 3 Siemens Arellica IM Immuno-Mycologies Inc. ASI DiaSorin Lisison XI.	N/A N/A N/A g'dL g'dL N/A Nonreactive / Reactive	Positive Nentive is Normal Albumine 3.5.5 0 gdf. 2.0.4 gdf. Alpha 2: 0.5.1 0 gdf. Brass Brass 0.6-1.5 gdf. 14.0-72.0 Nogative is Normal Nonreactive is Normal Upraid:	N/A N/A N/A N/A N/A N/A N/A N/A	BioPlex200 MMRV IgG Poscolute Market 2010 Instructions for use manual Package Insert Atellica product insert (PTH) REV 4, 202011 Package Insert Package insert Package insert	N/A N/A N/A N/A N/A N/A N/A N/A N/A	Negative The absence of detectable IgG- class antibodies to meades, numps. Negative / Positive N/A 6.3-160,000.9 1.2 - 212260 1.1 - 212048
Mumps IgG Als, Immune Status Mvelouerusidase Antibudies Protein Electrophoresis PTH Intact Quant. Cryptoescens Antigon. Quantitative RPR Renin Ribusomal P. Antibudy. RNP Antibudy.	Mumps Ah. IgG N/A N/A Serum Electrophoresis, PSE, Serum Electrophoresis with Belles to human-fraction PTH N/A N/A Renin, Direct RBIOFT RNPT	Multiples flow immunossasy Multiples ImmunoTion Asser Electrophoresis Electrophoresis Two-site sandwich immunossasy Latenti Flow Assay Macroscopic sontreponental flocculation Multiples flow immunossasy Multiples flow immunossasy Multiples flow immunossasy	Bioples 2200 Biorles 2200 Biorles 2200 Sobis Capillarys 3 Simmen Arellica IM Immuno-Mycologies Inc. ASI DiaSorin Lisiton XL Bioples 2200 Biorles 2200 Biorles 2200	N/A N/A N/A g'dL g'dL N/A Nonreactive / Reactive pg'mL N/A No.	Positive Normal	N/A	BioPlex200 MMRV IgG Poscolute Market 2010 Instructions for use manual Package Insert Azellica product insert (PTH) REV 4, 2020 H Package insert Package insert Package insert Package insert Package insert Package insert Package insert testbook Package insert, testbook Package insert, testbook	N/A N/A N/A N/A N/A 6.3-2,000,0 N/A N/A N/A 2.1-300,0	Negative / Positive Negative / Negative
Munga IgG Al, Immune Sarin Mvelonernsidase Antibodies Protein Electrophoresis PTH Intact Quant. Cryptosecens Antigon, Hood Quantitative RPR Renin Ribusonal P. Antibody RNP Antibody RPR	Mumps Ah. IgG N/A N/A Serum Electrophoresis, PSE, Serum Frotein Electrophoresis with Reflex to Immunofication IPTH N/A N/A N/A Renin, Dreet REIOFT RSPT Rapid Plasma Reagin	Multiplex flow immunossasy Multiplex ImmunoFlow Asser Electrophoresis Electrophoresis Lateral Flow Assay Macroscopic nontreponental flocculation Multiplex flow immunossasy Macroscopic nontreponental	Bioples 2200 Biorles 2200 Biorles 2200 Sebis Capillarys 3 Siemens Atellica IM Immuno-Mycologies Inc. ASI DiaSorin Liaison XL Bioples 2200 Biorles 2200 ASI	N/A N/A N/A g'dL pg/mL N/A Nontreactive / Reactive pg/mL N/A N/A N/A Nontreactive / Reactive	Positive Normal	N/A	BioPlex200 MMRV IgG Poscolute Market 2010 Instructions for use manual Instructions for use manual Package Insert Arcilica product insert (PTH) REV-4, 2020 11 Package insert Package insert Package insert Package insert Package insert Package insert Package insert Package insert Package insert Package insert Package insert textbook Package insert textbook Package insert textbook	N/A N/A N/A N/A N/A 6.3-2,000,0 N/A N/A N/A N/A N/A N/A N/A N/A	Negative / Positive
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Mumps IgG Ah, Immune Status Mveloureruidase Antibudies Protein Electrophoresis Protein Electrophoresis Prill Intact Quant. CRoude Quantitative RPR Renin Renin Renin Ribnomati P. Antibudy RPR RPR. Baby RPR with Titer Rubchi Immune Status IgG Rubchi Immune Status IgG Rubchi Immune Status IgG SARS-COV-2 Spike Protein Antibudy Sex Hormone Binding Globulin Sickle Cell Sereen Sin Antibudy Sex Hormone Bindind Scholanis Sickle Cell Sereen Sin Antibudy Sex Hormone Bindind Scholanis Sickle Cell Sereen Sin Antibudy Sex Hormone Bindind Scholanis Sickle Cell Sereen Sin Antibudy Sex Hormone Bindind Scholanis Sickle Cell Sereen Sin Antibudy Sex Hormone Bindind Scholanis Sickle Cell Sereen Sin Antibudy Sex Hormone Bindind Scholanis Sickle Cell Sereen Sin Antibudy Sex Hormone Bindind Scholanis Renin Bindind Scholan	Mumps Ah. IgG N/A Senum Blacherphoresis, PSI, Senum Protein Electrophoresis with Reflex to Immunofication IPTH N/A N/A N/A Renin, Direct RHOFT RNPT Rapd Plasma Reagin RPR, Therapy RUBAB	Multiples flow immunossay Multiples flow immunossay Multiples ImmunoFlow Asser Electrophoresis Electrophoresis Lateral Flow Assay Marcoccepic sontreponeral flocedation Chemiluminescent Immunossay Multiples flow immunossay Multiples flow immunossay Multiples flow immunossay Marcoccipic sontreponeral flocedation Multiples flow immunossay CLIAN Multiples flow immunossay Modifical Nathandian Procedure Solodility Modifical Nathandian Procedure Multiples flow immunossay Multip	Bioples 2200 Biooles 2200 Biooles 2200 Biooles 2200 Sebia Capillarys 3 Siemen Atellica IM Immuno-Mycologica Inc. ASI DisSorin Lision XL Bioples 2200 Biooles 2200 Bioples 2200 DisSorin Lision XL Siemen Atellica IM Siedes Screen Siedling Immuno XL Siemen Atellica IM Biooles 2200 Bioples 2200 Bioples 2200 DisSorin Lision XL Siemen Atellica IM Siedes 2200 Biooles 2200 Bi	N/A N/A N/A N/A pg/nL N/A Nonreactive / Reactive pg/nL N/A Nonreactive / Reactive Nonreactiv	Positive Neutrie is Normal Albemin 3. Membra 1. Albemin 3. Albemin 3. Albemin 3. Albemin 3. Albemin 3. Albemin 3. Albemin 4. Albemin 6. Albemin 6. Albemin 6. S. L. Bed 6. S. L. Bed 6. S. L. Bed 6. S. L. Bed Normal Nonreactive is Normal 1. 4.0.72.0 Negative is Normal 2. 440. 3. 6. 8. 2. 2 440. 3. 6. 8. 2. 2 440. 3. 6. 8. 2. 2 440. 3. 6. 8. 2. 2 440. 3. 6. 8. 2. 2 440. 3. 6. 8. 2. 2 440. 3. 6. 8. 2. 2 440. 3. 6. 8. 2. 2 440. 3. 6. 8. 2. 2 440. 3. 6. 8. 2. 2 440. 3. 6. 9. 10 Normal Normal Normactive is Normal	N/A	BioPlex200 MMRV IgG Procedure Mortivations for use manual Instructions for use manual Package Insert Arellica product insert (PTI) REV 4, 2020 11 Package insert See Package insert Package insert, testbook Package insert, testbook Package insert, testbook Package insert, testbook Package insert	N/A	Negative The absence of detectable IgG- class antificiotic to meades, numps, Negative / Positive NA NA NA 104 6.3-160,000.0 12-212560 11-212048 2.1-3,000.0 12-212560 11-212048 2.1-3,000.0 Negative / Positive
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Mumps IgG Ah, Immune Status Mveloureruidase Antibudies Protein Electrophoresis Protein Electrophoresis PTH Intact Quant. Cryptesecen Antigan, Bulletin Antibudy Renain Renain Renain Renain Ribusomal F Antibudy RPR RPR - Baby Relation - Status IgG Antibudy Robert Inmune Status IgG Antibudy Sea Hormone Binding Globulin Sickle Cell Screen Sea Antibudy Sea Hormone Binding Globulin Sickle Cell Screen Sea Antibudy Sea Hormone Binding Globulin Sickle Cell Screen Sea Relation Sea Relation Sea Relation Sea Relation Sea Relation Visitation - 24 Urine Immunofixation - 24 Urine Immunofix	Mumps Ah. IgG N/A N/A N/A Serum Electrophoresis, PSE, Serum Frotein Electrophoresis with Reflex to Immunofication PTHI N/A N/A N/A Renin, Direct REBOFT REPT RAPI PER, Neonatal RPR, Neonatal RUBGH SARS-COV-2, COVID-19 IncG SIBIA Sikle Hemaglobin Solubility Simin Autibody SSA Antibody SSA Antibody SSA Antibody SSA Antibody SSA Antibody SSA Antibody Monoclound Pot Immfe, Urine— 24 Hear, UMFYA Monoclound Pot Immfe, Urine— 25 Hear, UMFYA Monoclound Pot Immfe, Urine— 26 Hear, UMFYA Monoclound Pot Immfe, Urine— 27 Hear, UMFYA WZISH	Multiples flow immunossay Multiples ImmunoFlow Asser Electrophoresis Electrophoresis Electrophoresis Electrophoresis Lateral Flow Assay Macroscopic nontreponenul flocculation Multiples flow immunossay Macroscopic nontreponenul flocculation Multiples flow immunossay Sandwich Immunossay Multiples flow immunossay Multiples flow immunossay Multiples flow immunossay Electrophoresis Electrophoresis Electrophoresis Electrophoresis Multiples flow immunossay Electrophoresis Electrophoresis Multiples flow immunossay	Bioples 2200 Biooles 2200 Biooles 2200 Biooles 2200 Sobia Capillarys 3 Simmen Atellica IM Immuno-Mycologies Inc. ASI DiaSorin Lision XL DiaSorin Lision XL DiaSorin Lision XL Bioples 2200 Biooles 2200 Bioples 2200 Bioples 2200 DiaSorin Lision XL Simmen Atellica IM Simmen Atellica	N/A N/A N/A N/A N/A Nonreactive / Reactive Pay'int. N/A Nonreactive / Reactive Nonreactive / Reactive Nonreactive / Reactive Nonreactive / Reactive Nonreac	Positive Neutrive is Normal Athenia: 0.5-1.1 grid. Gammai: 0.6-1.5 grid. Ind. Gammai: 0.6-1.5 grid. Norreactive is Normal Norreactive is Normal Limita: 40: 43-25-2 240: 2.6-8.1 of the Athenia: Athenia: Athenia: Athenia: Athenia: Norreactive is Normal	N/A	BioPlex200 MMRV IgG Poscolute Market 2010 Instructions for use manual Instructions for use manual Package Insert Package Insert Adellica product insert (PTH) REV 4, 202011 Package Insert Package insert testbook Package insert	N/A	Negative / Positive
Munpu IgG Ah, Immune Sarins Myelmerusidase Antibudies Protein Electrophoresis PTH Intact Quant. Cryptosecens Antigen, Bland Quantitative RPR Renin Renin Ribessemal P. Antibudy RNP Antibudy RPR RPR - Baby RPR - Antibudy RNP - Antibudy SARIC	Mumps Ah. IgG N/A Senum Electrophoresis, PSE, Senum Protein Electrophoresis with Reflex to Immunofication PTH N/A N/A Renin, Direct RENIT Rapid Plasma Reagin RPR, Neonatal RPR, Therapy RUBAB RUBAB RUBAB SAMS-COV-2. COVID-19 leG Siddle Hemoglobin Solubility Siddle Hemoglobin Solubility Siddle Hemoglobin Solubility SIBG Siddle Hemoglobin Solubility SIBA Authoch SSA Authoch	Multiples flow immunossay Multiples firmuno/Foer Asser Electrophoresis Electrophoresis Electrophoresis Lateral Flow Assay Macroscopic nontreponenul flocculation Multiples flow immunossay Macroscopic nontreponenul flocculation Multiples flow immunossay Sandwich Immunossay Multiples flow immunossay Electrophoresis Multiples flow immunossay Electrophoresis Electrophoresis Electrophoresis Multiples flow immunossay Immunossay Chemluminocent	Bioples 2200 Biooles 2200 Biooles 2200 Biooles 2200 Sebia Capillarys 3 Siemen Atellica IM Immuno-Mycologica Inc. ASI DiaSorin Lision XL Bioples 2200 Biooles 2200 Bioples 2200 DiaSorin Lision XL Siemen Atellica IM Sekid-Secreon W Sieden Bioples 2200 DiaSorin Lision XL	N/A N/A N/A Pg/mL N/A N/A N/A N/A N/A N/A N/A N/	Positive Neutrie is Normal Athemite 3. Albertie 4. Albertie 6. 3. Albertie 8. Albertie	N/A	BioPlex200 MMRV IgG Procedure BioPlex200 MMRV IgG Procedure Biofractions for use minutal Package Insert Arellica product insert (PTI) REV 4, 2020 11 Package Insert	N/A	Negative Positive
Mumps IgG Ah, Immune Status Mvelmerensidase Antibudies Protein Electrophoresis Prill Intact Ouant. Cryptosecen Antigen, Blood Quantitative RPR Renin Renin Renin Ribasamal F. Antibude, RNP Antibude RPR RPR. Baby RPR with Titer Robeil Immune Satus IgG Antibudes Antibudes Satura Antibude Satura An	Mumps Ah. IgG N/A Senum Blackrephoresis, PSI, Senum Protein Electrophoresis, Senum Protein Electrophoresis with Reflex to Immunofication PTHI N/A N/A N/A Remin, Direct RHOFT RNPT Rapel Plasma Rengin RPR, Therapy RUBAB RUBAB RUBAB RUBAB RUBAB RUBAB SARS-CoV-2, COVID-19 lsG SIBIG Siklic Hemoglobia Solubility Smith Anthody Siklic Anthody Siklic Anthody Siklic Anthody Siklic Anthody Sylvalis IgGigled Anthody with Reflex RPR TONG Monocloral Post Immit, Urine - Renden RPR VZEB Vitamin D, Total 1.25 Dibydoxy Vitamin D	Multiples flow immunossay Multiples firmuno/Flow Asser. Electrophoresis Electrophoresis Lateral Flow Assay Macroscopic sontreponeral flocodation Microscopic sontreponeral flocodation Multiples flow immunossay Macroscopic sontreponeral flocodation Multiples flow immunossay Macroscopic sontreponeral flocodation Multiples flow immunossay Multiples flow immunossay Chemiluminossay Multiples flow immunossay Sandwich Immunossay Modified Nultiples flow immunossay Multiples flow immunossay Electrophoresis Electrophoresis Electrophoresis Electrophoresis Intrazonossay Immunossay Chemilumineccett immunossay	Bioples 2200 Bioples 2200 Bioples 2200 Bioples 2200 Sebia Capillarys 3 Siemen Atellica IM Immuno-Mycologies Inc. ASI DiaSorin Lision XL Bioples 2200 DisSorin Lision XL DiaSorin Lision XL	N/A N/A N/A N/A Pg/ml. N/A Nonreactive / Reactive Pg/ml. N/A Nonreactive / Reactive Nonreact	Positive Nontrive is Normal Albemine 3.5-5 by grid. 3.5-5 by grid. 3.2-0.4 grid. Albaha 2: 3.5-1 by grid. 4.5-1 by grid. 4.5-2 by grid. Normacirive is Normal Normacirius is Normal Normacirius in Normacirius	N/A	BioPlex200 MMRV IgG Procedure Mortivetions for use manual Package Insert Arellica product insert (PTH) REV 4, 2020 11 Package insert	N/A	Negative / Positive
Mumps IgG Ah, Immune Status Mvelmerusidase Antibudies Protein Electrophoresis Protein Electrophoresis PTH Intact Quant. Cryptosecens Antigen, Bland Quantitative RPR Renin Renin Ribusemal P. Antibudy RNP antibudy RPR RPR - Baby RPR - Antibudy SREAT - Antibudy SSEAT -	Mumps Ah. IgG N/A Senum Electrophoresis, PSE, Senum Protein Electrophoresis with Reflex to Immunofication PTH N/A N/A Renin, Direct RENIT Rapid Plasma Reagin RPR, Neonatal RPR, Therapy RUBAB RUBAB RUBAB SAMS-COV-2. COVID-19 leG Siddle Hemoglobin Solubility Siddle Hemoglobin Solubility Siddle Hemoglobin Solubility SIBG Siddle Hemoglobin Solubility SIBA Authoch SSA Authoch	Multiples flow immunossay Multiples firmuno/Foer Asser Electrophoresis Electrophoresis Electrophoresis Lateral Flow Assay Macroscopic nontreponenul flocculation Multiples flow immunossay Macroscopic nontreponenul flocculation Multiples flow immunossay Sandwich Immunossay Multiples flow immunossay Electrophoresis Multiples flow immunossay Electrophoresis Electrophoresis Electrophoresis Multiples flow immunossay Immunossay Chemluminocent	Bioples 2200 Biooles 2200 Biooles 2200 Biooles 2200 Sebia Capillarys 3 Siemen Atellica IM Immuno-Mycologica Inc. ASI DiaSorin Lision XL Bioples 2200 Biooles 2200 Bioples 2200 DiaSorin Lision XL Siemen Atellica IM Sekid-Secreon W Sieden Bioples 2200 DiaSorin Lision XL	N/A N/A N/A Pg/mL N/A N/A N/A N/A N/A N/A N/A N/	Positive Neutrie is Normal Athemite 3. Albertie 4. Albertie 6. 3. Albertie 8. Albertie	N/A	BioPlex200 MMRV IgG Procedure BioPlex200 MMRV IgG Procedure Biofractions for use minutal Package Insert Arellica product insert (PTI) REV 4, 2020 11 Package Insert	N/A	Negative / Positive Negative / Positive 1.1 - 212048 2.1-3,000.0 1.2 - 212560 1.1 - 212048 2.1-3,000.0 1.2 - 212560 1.1 - 212048 2.1-3,000.0 Negative / Positive Negative / Positive Negative / Positive 1.1 - 212048 1.2 - 2048 1.3 - 2048 Negative / Positive Negative
Mumps IgG Ah, Immune Status Mvelourensidase Antibudies Protein Electrophoresis Prill Intact Quant. Cryptoceccus Antigen, Bloward Parker Renin Renin Renin Renin Ribasard P. Antibudy RYP Autibudy RYP With Titer Rubchi Immune Status IgG Reheola IgG Al, Immune Saltus) SARS-COV-2 Spike Protein Autibudy Sex Hormone Binding Globulin Sickle Cell Screen San Antibudy Sex Hormone Binding Globulin Sickle Cell Screen San Antibudy Sex Hormone Binding Globulin Sickle Cell Screen San Antibudy Sex Hormone Binding Globulin Sex Bill Antibudy Sex Hormone Binding Globulin Sex Bill Antibudy Sex Bill Antibudy Varieties IgG Antibudy New York Antibudy Renin Antibudy Re	Mumps Ab. IgG N/A N/A Senum Electrophoresis, PSE, Senum Protein Electrophoresis with Reflex to Immunofication PTH N/A N/A Renin, Direct RENOT ENDET ENDET	Multiples flow immunossay Multiples flowing immunossay Multiples firmunoflow Asser. Electrophoresis Electrophoresis Lateral Flow Assey Macroscopic sontreponerul flocodation Chemiluminecent Immunossay Multiples flow immunossay Chemiluminecence immunossay Multiples flow immunossay Electrophoresis Electrophoresis Electrophoresis Multiples flow immunossay Immunossay Chemiluminoscent immunossay Immunossay Chemiluminoscent In vito chemiluminoscent immunossay Fluorescent in Situ Hybridization Fluorescent in Situ Hybridization	Bioples 2200 Biooles 2200 Biooles 2200 Biooles 2200 Sebia Capillarys 3 Siemen Atellica IM Immuno-Mycologica Inc. ASI DiaSorin Lision XL Bioples 2200 Bioples 2200 Bioples 2200 Bioples 2200 DiaSorin Lision XL Siemen Atellica IM Siedes Section Station Stat	NVA NVA NVA g'dL pg'mL NVA Nonreactive / Reactive pg/mL NVA NA Nonreactive / Reactive Nonreactiv	Positive Nonative is Normal Albumin 3.5-5 by gid. 0.2-0.4 gid. Albah 2: 0.5-1 by gid. 0.5-1 by gid. 0.5-1 by gid. 0.5-1 by gid. 1.4-0.72.0 Negative is Normal Nonreactive is Normal Lictude: -40-2-2-2-2 240-3-0.41.6 Summe: -41-3-2-3-2 240-3-0.41.6 Summe: -41-3-3-3-3 Nonreactive is Normal Normal is Normal is Normal Normal is Normal is Normal Normal is	N/A	BioPlex200 MMRV IgG Procedure Marchage insert Package insert Alellica product insert (PTH) REV 4, 2020 11 Prockage insert Package insert Siemons MMR ILTE 2000 SHBG (PILEXSH-20, 2018-03-15) Package insert testbook Package insert	N/A	Negative / Positive Negative / Positive Negative / Positive Noneative / Positive Noneative / Positive Noneative / Positive 1:1 - 2:12048 2:1-3,000.0 1:2 - 2:12560 1:1 - 2:12048 2:1-3,000.0 Negative / Positive Noneative / Positive Noneative / Positive 1:1 - 2:12048 1:1 - 2:12048 Negative / Positive Negative / Positive Negative / Positive Negative / Positive Noneative / Posit
Mumps IgG Ah, Immune Status Mvelourensidase Antibudies Protein Electrophoresis PTH Intact Ouant. Cryptoescens Antigen, Bland Quantitative RPR Renin Renin Renin Renin Ribasamal P. Antibude RNP Antibude RNP Antibude RPR RPR - Baby RPR with Titer Roberla Innumer Status IgG Renin Status IgG Robert IgG Ah (Immune Status) SARS-COV-2 Spike Protein Antibude Sex Hormone Binding Globulin Sickle Cell Serven Sex Antibude SS-ARO Antibude SS-ARO Antibude SS-ARO Antibude SS-RO Antibude RO Antibude SS-RO Antibud	Mumps Ab. IgG N/A N/A Senum Flactorphotencia PSI. Senum Protein Basetrophotenia with Reflex to Instrument and Psi Instrument and Instrumen	Multiples flow immunossay Multiples flowing immunossay Multiples firmunoflow Asser. Electrophoresis Electrophoresis Lateral Flow Assay Macroscopic sontreponerul flocodation Chemiluminescent Immunossay Multiples flow immunossay Chemiluminescent immunossay Multiples flow immunossay Immunossay Chemiluminoscent immunossay Chemiluminoscent immunossay Flowrescent in Situ Hybridization	Bioples 2200 Biooles 2200 Biooles 2200 Biooles 2200 Biooles 2200 Schia Capillarys 3 Siemen Atellica IM Immuno-Mycologica Inc. ASI DiaSorin Lision XI. Biooles 2200 Biooles 200 Biooles 20	N/A N/A N/A Pg'nt N/A Nonreactive / Reactive Pg/mt N/A Nonreactive / Reactive Nonreactive / R	Positive Nonative is Normal Albumin 3.5-5 by gid. 0.2-0.4 gid. Albaha 2: 0.5-1 by gid. 0.5-1 by gid. 0.5-1 by gid. 0.5-1 sy did. In the system of	N/A	BioPlex200 MMRV IgG Procedure Marchage insert Package insert Alellica product insert (PTH) REV 4, 2020 11 Prockage insert Package insert Sierrons MMR LITE 2000 SHBG (PLEXSH-20, 2018-03-15) Package insert textbook Package insert	N/A	Negative / Positive 1:1 - 21:2048 2:1-3,000.0 1:2 - 21:2560 1:1 - 21:2048 2:1-3,000.0 Negative / Positive Negative / Positive Negative / Positive Negative / Positive 1:1 - 21:2048 1:1 - 21:2048 1:1 - 21:2048 1:1 - 21:2048 1:1 - 21:2048 Negative / Positive Negative / Reserved Negative /

March Marc	BCR/ABL, T(9;22), QUANT									
Charles Char	BCR/ABL, T(9;22), QUANT					P190 transcript: Not Detected				
Part Description Part		BCRSCR, BCR-ABL, t(9;22), CML	Real Time PCR	7500 Fast Dx	% BCR-ABL1/ABL1		N/A	N/A	0.000-100.000	0.000-100.000
Charge Company Compa						BCR-ABL1/ABL1 %:				
Description	C9orf72 Hexanucleotide Repeat	N/A		Acuracin	# of Hevanucleotide repeats		N/A	Testing control specimens and published	+/- 1 hexanucleotide repeat for	2 repeats through thousands of
Part	Analysis	N/A	expanded alleles >145 repeat	Astragen	# of riexandeseotide repeats		iea	literature	normal range	hexanucleotid repeats BRAF Mutation: Detected,
Fig. 67.00. Control Superior Superi	Hairy Cell Leukemia BRAF V600 Mutation	B-RAF, BRAF V600E	Pyrosequencing	Applied Biosystems GeneAmp PCR System + Qiagen Pyromark	N/A		N/A	N/A	0-100	Not Detected, Not Indicated,
The Notion		BTK and PLCG2 Full								Indeterminate
Color Colo	Comprehensive Mutation Profiling	Sequencing		Ion Torrent S5	N/A		N/A	N/A	0-100	Detected/Not detected
Control State State Control State Contro	BTK Resistance Mutation	BTKR C481S	polymerase chain reaction	BioRad	%		N/A	Validation	0-100	Detected/Not detected
Processor Proc		Calreticulin Mutation Detection	Fluorescent fragment analysis,	Applied Biosystems GeneAmp	N/A	Not detected	N/A	N/A	N/A	Detected/Not detected
March Marc	MPN FISH, CCND1									
PRIL RATIO CONTROLL PRIL PRIL CONTROLL PRIL RATIO CONTROLL	Sion-out		=			=			N/A N/A	Positive/Negative N/A
Proceedings 1987 1981 1987 1981 1987 1981 1987 1981 1987 1981 1987 1981 1987			Sequence analysis (non-NGS),	Applied Biosystems GeneAmp			****		N/A	Detected/Not detected
Compression Teams Comp		CHOP - FISH,							N/A	Positive/Negative
Comprehenses New Post New P	Comprehensive Hematology		,							
Trans. T	Assessment	Heme Panel	Next Generation Sequencing	iliumina NextSeq	N/A	the target VAF level	N/A	N/A	N/A	N/A
Color Colo	Genomic Profile with MSI	Large panel NGS, Tumor NGS, TMB, CTPNGS	Next Generation Sequencing	Illumina NextSeq	N/A	N/A	N/A	N/A	N/A	N/A
Col. 100	Sign-out	CMET - FISH	Fluorescent In Situ Hybridization	Bioview	N/A	Not detected	N/A	N/A	N/A	Detected/Not detected
PRINE_ECRI_Mapping PRINE_E	Sign-out				N/A	Not detected	N/A	N/A	N/A	Detected/Not detected
FINE Early Registration EGR Title Therework is the hybridation Elevery No. No. No. No. No.	(exons 19 & 21),	Epidermal growth factor receptor, L858R, exon 19, exon 21	restriction fragment length	Applied Biosystems GeneAmp PCR System + Genetic Analyzer	N/A	Not detected	N/A	N/A	N/A	Detected/Not detected
Power Process Proces	FISH, EGFR Amplification (glioma), Sign-out	EGFR - FISH		Bioview	N/A	Not detected	N/A	N/A	N/A	Detected, Not Detected, Not Indicated, Indeterminant
Fine Marine FACY Leiden, Cliff A, ESSOQ Liver Control Liver Contro	Extended RAS Mutation Panel, Sign-out	XRAS	Pyrosequencing	Pyromark	N/A	Not detected	N/A	N/A	0-100	Detected, Not Detected, Not Indicated
February Nationals Sect. Locker, G1911, R5960 College Coll	FISH, EWSR1 Rearrangement, Sign-out	EWSR1 - FISH	Fluorescent In Situ Hybridization	Bioview	N/A	Negative	N/A	N/A	N/A	Positive/Negative
Table Part	Factor V Mutation FACV	Leiden, G1691A. R506O			N/A	Not detected Heterozyonus +	N/A	Gene Reviews	N/A	Not detected Heterozygous +
Internation			polymorphism			Homozygous +				Homozvgous +
Hereditory National Processing SATUNGS Processing LifeTech 55 N/A N/A N/A N/A N/A	FLT3, ITD & TK Mutation		PCR and capillary electrophoresis		N/A	Not detected	N/A	N/A	N/A	Detected/Not detected
Pasel T.4.C. matters T.4.C. matter	Hematologic	MYLNGS,	Next Generation S	LifeTark C5	N/A	N/A	N/A	N/A	0.5% VAF	0.5-100.0% VAF
General Analysis Common PEC 2574, Pol Lip Res PCR Applied Biosystem General-page PCR Spenser Clearle Analysis PCR	Panel		vext Ocuciation Sequencing	Life (eth S5	IS/A	NA.	NA	N/A	0.5% VAP	0.3-100.076 VAF
Post part First, IEEC. First,	(Gene Analysis, Common		PCR		N/A	N/A	N/A	N/A	N/A	N/A
Protected in Sul in Protection In Sul in S	Variants)	HER-2.								GI: Positive, Negative, Indeterminant
Huntington's Disease Huntington chores, HTT Cree Followers and processing all processing all the processing all processi		HER2/neu, neu	Fluorescent In Situ Hybridization	Bioview	N/A		N/A	N/A	N/A	Breast: Positive. Negative
IDHI and IDHIZ Meastaines IDHI Pyrosequencing Applied Biosystems Genechap PCR System + Gingel Pyrounds PCR System + Gingel Rodylars International Pyrounds International Pyro	Huntington's Disease	Huntington chorea, HTT Gene	fluorescent capillary fragment	Applied Biosystems GeneAmp	N/A	Allele; HD Allele with reduced	N/A	Gene Reviews	N/A	Normal Allele; Normal Mutable Allele; HD Allele with reduced penetrance;
B Cell Gene Rearrangement ICVI Mutation Analysis ICVI Mutation Detection ICVI DETECTION FOR ICVI DETECTION			analysis			penetrance penetrance				HD Allele with full penetrance
Coult metating metating Clearlays, [4] FCR Clear, [4] FCR	IDH1 and IDH2 Mutations	IDH1	Pyrosequencing	Applied Biosystems GeneAmp PCR System + Qiagen Pyromark	N/A	Not detected	N/A	Normal controls	0-100	Detected/Not detected
CVI Mutation Analysis Collection (Instruction) Applied Biosystems Geno.Aug.	B Cell Gene Rearrangement	IGH gene rearrangement, B cell Clonality, IgH PCR	Polymerase Chain Reaction	Applied Biosystems GeneAmp PCR System + Genetic Analyzer	N/A	Negative	N/A	N/A	N/A	Positive/Negative
JAX2 VAIT Mutation Detection JAK Pyrosequencing PCR System + Genetic Analyser PCR System + Genetic Analyser Analyse Control Analyser PCR System + Genetic Analyser Analyse Control Analyser PCR System + Genetic Analyser Analyse Control Analyse Analyse Control A					N/A	N/A	N/A	N/A	N/A	mutated/unmutated
JAKE VAT7 Metation Detection JAK Pyrmoceposing PCR System * Genetic Analyser Online Personals* NA Clink, Not detected NA NA Validation	IGVII Mutation Analysis	mutation analysis, CLL IGVH	(non-NGS)	PCR System + Genetic Analyzer	IVA	NA.	IVA	NA.	NOA	matated/unitotated
KET DBLY Mantine Detection CKT, CD17, FBT, SCFR polymerase chain reaction Sin Bad Sin Detected NA NA Validation NA Val	JAK2 V617 Mutation Detection	JAK		PCR System + Genetic Analyzer	N/A	<1%, Not detected	N/A	N/A	0-100	Detected/Not detected
Limit Cancer Mentine Panel PCL MOL No. Gene Communication No. A No.	KIT D816V Mutation Detection	cKIT, CD117, PBT, SCFR	polymerase chain reaction	BioRad	96		N/A	Validation	0-100	Detected/Not detected
Sign-out		PULMOL	(AS-ddPCR) Next Generation Sequencing	Ion Torrent S5	N/A		N/A	N/A	N/A	Detected/Not detected
Sign-out Many Control of the Control of Cont		MALT1 - FISH	Fluorescent In Situ Hybridization	Bioview	N/A	Negative	N/A	N/A	N/A	Positive/Negative
Modify the Tetral performance Modify the Tetral performanc	Sign-out	MDM2 - FISH	Fluorescent In Situ Hybridization	Bioview	N/A	Not detected	N/A	N/A	N/A	Detected/Not detected
MCMTT rounner Methylation, MCMT1, Oe-Merylganniae DNA methylrandinae Pyrosequenting Pyrosequenting Pyrosequenting Pyrosequenting N/A	(Methylene Tetrahydrofolate	NADPH, 677C>T, MTHFR			N/A	Not detected	N/A	Gene Reviews	N/A	Not Detected, Heterozygous positive,
MIIII Premater Methylation MIIII symbol rows, INPCC Biosific modification Applied Biosystems General Analysis, Quant MIII Symbol region NPCC Biosific modification Applied Biosystems General Analysis, Quant MIII Symbol region NPCC Miscontinum NPCC Misco	MGMT Promoter Methylation,	MGMT1, O6-Metylguanine DNA	Pyrosequencing		N/A	N/A	N/A	N/A	N/A	Homozvaous positive Hypermethylated /
MLIII Tronster Methylation MLIII Lynch syndrome, INPCC Microsatefilite Instability (NS) Microsatefility	Tumor	methyltransferase			100	167	107	100	1674	Not Hypermethylated Hypermethylated /
PCR System PCR PCR System PCR PCR System PCR PCR System PCR	MLH1 Promoter Methylation			PCR System + Genetic Analyzer Qiagen Pyromark	N/A	N/A	N/A	N/A	N/A	Not Hypermethylated
MPH_Matation Analysis		non-polyposis colon cancer,	multiplex polymerase chain reaction, fluorescent fragment analysis	PCR System + Thermal Cycler,	N/A	N/A	N/A	N/A	N/A	MSI-S, MSI-L, MSI-H
Quant		TPOR, CD110, THPOR	Pyrosequencing Fluorescent In Situ Hybridization	Qiagen	% N/A				5% N/A	5% Positive/Negative
	MYD88 Mutation Analysis,		Allele-specific digital droplet polymerase chain reaction			<0.1%,			0-100	Detected/Not detected
Mytonic Pystrophy DMFK Gree fluorescent capillary fragment fluorescent capillary fragment MPM Mutation Analysis, Quant MPM Mutation Analysis, Not Detected No Not Detected No Not Detected No Not Detected No Not Analysis			(AS-ddPCR) Polymerase chain reaction,							5-1500
Quant mutation mutation BioRad (AS-ABPCR) % NA Validation NRAS Mutation NRAS coden 12, 13, 61 Pyrosequencing Applied Biosystem Gene Aupr N/A Not Detected N/A N/A NRAS Mutation NRAS coden 12, 13, 61 Pyrosequencing PCR sweeter+ Quages Pyromath. N/A Not detected N/A N/A			fluorescent capillary fragment analysis		Repeats	Negative	N/A	Gene Reviews	5-1500	Negative; Premutation; Full Mutation
NRAS Mutation NRAS codon 12, 13, 61 Pyrosequencing Applied Biosystem GeneAmp Polago Pyrosequencing Applied Biosystem GeneAmp Polago Pyrosequencing N/A Not detected N/A N/A N/A			polymerase chain reaction	BioRad	96		N/A	Validation	0-100	Detected/Not detected
NTRK Fusion Panel NTRK1, NTRK2, NTRK3 Next generation sequencing N/A N/A N/A N/A N/A N/A Validation	NRAS Mutation	NRAS codon 12, 13, 61		Applied Biosystem GeneAmp PCR system + Qiagen Pyromark	N/A		N/A	N/A	0-100	Detected/Not detected
FISH. NUTMI Rearrangement NUT1, Midline Carcinoma Fluorescent In Situ Hybridization Bioview N/A Negative N/A N/A	NTRK Fusion Panel FISH, NUTMI Rearrangement		Next generation sequencing Fluorescent In Situ Hybridization	N/A	N/A N/A	Not Detected Negative	N/A N/A	Validation N/A	N/A N/A	Detected/Not detected Positive/Negative
Oral Risse Sample (Moleculus) N/A community (Moleculus) <t< th=""><th>Oral Rinse Sample (Molecular)</th><th>comprehensive genomic panel</th><th>N/A</th><th></th><th></th><th></th><th></th><th></th><th>N/A</th><th>N/A</th></t<>	Oral Rinse Sample (Molecular)	comprehensive genomic panel	N/A						N/A	N/A
Analysis, Request Cyst thing mutation analysis Next Generation Sequencing ion Genesticatio N/A Not Detected N/A N/A	Analysis, Request	cyst fluid mutation analysis	Next Generation Sequencing	Ion GeneStudio	N/A	Not Detected	N/A		0-100	Detected, Not Detected Detected,
PIK3CA Mutation Analysis, Request NA Pyrosequencing PyroMark Sumulation Not Detected NA Testing specimens from normal, healthy controls		N/A		PyroMark	% mutation	Not Detected	N/A		0-100	Not Detected, Indeterminate
Proteombie A 1913 EG Material GOZ210A, Prothombiu Mutation Applied Biosystems Gene Applied Biosystems	Prothrombin A20120G Mutation	G20210A, Prothrombin Mutation	analysis, restriction fragment length		N/A	Not detected	N/A	Gene Reviews	N/A	Not Detected, Heterozygous positive,
Polymorrhism Control for State of State		15:17 PMI ADI poisson	polymorphism		NCN = % DMI -D AD A/ADI		N/A	Blood samples with no history of AML-	NCN > 1	Homozygous positive Not Detected, DETECTED, long form transcript, DETECTED, short form
ART REFERENCE ELECTROLUCION BILITARIO DE REPORTE EL	, , ,	,	Fluorescent In Situ Hybridization		N/A			M3	NCN > 1 N/A	transcript, DETECTED, short form transcript Positive/Negative
ROSI Rearranement ROSI - FISH Fluorescent In Situ Hoberdization Bioview N/A Negative N/A	ROS1 Rearrangement	ROS1 - FISH	Fluorescent In Situ Hybridization	Bioview		Negative	N/A	N/A	N/A	Positive/Negative
MNI/SMN2 DNA Sequencing (SMN1) capillary electrophoresis PCR System + Genetic Analyzer N/A Not Detected N/A Gene Reviews		(SMN1)		PCR System + Genetic Analyzer	N/A		N/A	Gene Reviews	N/A	Detected/Not detected
Spinal Musc Atrophy Dosage- Carrier Study SMA Carrier test, SMA compound betwery yes testing, SMN 1 erce. SMN 2 exception analysis Carrier Study NA SMN 2 exception analysis Carrier Study NA SMN 2 exception analysis Carrier Study SMN 2 excep		compound heterozygote testing,			N/A	SMN1: 2-5 copies SMN2: 0-5 copies	N/A	Gene Reviews	N/A	0-5 copies
Spinal Muscular Atrophy - Werding-Hoffman, Kugelberg- Semi-quantitative PCR, fluorescent Applied Biosystems GeneAmp		Werdnig-Hoffman, Kugelberg-	Semi-quantitative PCR, fluorescent	Applied Biosystems GeneAmp	N/A	SMN1: 2-5 copies	N/A	Gene Reviews	N/A	0-5 copies
Disposité Westnefer, SMM gase explairy tragenet analyse PCK system e-femete Analyzer SMM2 De Soupes Contract Turner Mustation Panel Secretary SMM2 De Soupes		Solid Tumor Mutation Panel							0-100	Detected/Not detected
FISIL SS18 (SYT1) SYT-PISIL SYT-PISIL	FISH, SS18 (SYT1)	SYT-FISH,								
Rearrangement, SS 18-FISH Pluorescent in Satu Hybridization Biosvew NA Negative NA NA NA NA NA NA NA NA	Sign-out	SS18-FISH	r Iuorescent In Situ Hybridization		N/A	Negative	N/A	N/A	N/A	Positive/Negative
T Cell Receptor Grace Restrangement T Cell closulity. TCR beta, T-cell Polymerane Chain Reaction PCR N/A			Polymerase Chain Reaction		N/A	Negative	N/A	N/A	N/A	negative / oligoclonal / clonal TCRB rearrangements
TCRG, PCR T-sell clonality, TCR gamma, T-cell PCR Polymerase Chain Reaction Applied Biosystems GeneAmp PCR System + Genetic Analyzer N/A Polyclonal pattern N/A N/A N/A		Treal classify TCP convey T-	Polymerase Chain Reaction		N/A	Polycional pattern	N/A	N/A	N/A	Polyclonal pattern, Predominantly polyclonal pattern with minimal skewing, Monoclonal, Monoclonal on polyclonal background, Oligoclonal with dominant peaks, Oligoclonal with multiple peaks, Biallelic biclonal, Low clonal on polyclonal background, low
	TCRG, PCR	cell PCR								levels of amplification seen with acquate controls, Low levels of amplification seen with suboptimal controls, No amplification. Poor quality
IRAI MAIT Mutation IRF1 IRF1X POC20 Allele-specific digital droplet		cell PCR				-0.1% 241.0%				acquate controls, Low levels of amplification seen with suboptimal controls, No amplification. Poor quality or limited nucleic acid
UBAI MAIT Nutation UBE1, UBE1X, POC20, CFAP12A, A1S9T POtection CFAP12A, A1S9T PSEL XY, Sine-neat FINEL XY	UBAI M41T Mutation Detection	cell PCR UBE1, UBE1X, POC20, CFAP124, A1S9T	polymerase chain reaction (AS-ddPCR)	BioRad		Not Detected			0-100 N/A	acquate controls, Low levels of amplification seen with suboptimal controls, No amplification. Poor quality

7AAD Alpha/Beta	Viability N/A	Flow Cytometry Flow Cytometry	Navios Flow Cytometer Navios Flow Cytometer	% %	N/A N/A	N/A N/A	N/A N/A	N/A N/A	0.0-100.0% 0.0-100.0%
cCD3 cCD79a	T-CELL N/A	Flow Cytometry Flow Cytometry	Navios Flow Cytometer Navios Flow Cytometer	96 96	N/A N/A	N/A N/A	N/A N/A	N/A N/A	0.0-100.0% 0.0-100.0%
CD10	N/A N/A	Flow Cytometry Flow Cytometry	Navios Flow Cytometer Navios Flow Cytometer	%	N/A N/A	N/A N/A	N/A N/A	N/A N/A	0.0-100.0% 0.0-100.0%
CD103 CD107a	N/A	Flow Cytometry	Navios Flow Cytometer	76 96	N/A	N/A	N/A	N/A N/A	0.0-100.0%
CD107b CD117	N/A N/A	Flow Cytometry Flow Cytometry	Navios Flow Cytometer Navios Flow Cytometer	% %	N/A N/A	N/A N/A	N/A N/A	N/A N/A	0.0-100.0% 0.0-100.0%
CD11b CD11c	N/A N/A	Flow Cytometry Flow Cytometry	Navios Flow Cytometer Navios Flow Cytometer	%	N/A N/A	N/A N/A	N/A N/A	N/A N/A	0.0-100.0%
CD123 CD127	N/A N/A	Flow Cytometry Flow Cytometry	Navios Flow Cytometer Navios Flow Cytometer Navios Flow Cytometer	76 96	N/A N/A	N/A N/A	N/A N/A	N/A N/A	0.0-100.0% 0.0-100.0%
CD13	N/A	Flow Cytometry	Navios Flow Cytometer	%	N/A	N/A	N/A	N/A	0.0-100.0%
CD134 CD138	N/A N/A	Flow Cytometry Flow Cytometry	Navios Flow Cytometer Navios Flow Cytometer	% %	N/A N/A	N/A N/A	N/A N/A	N/A N/A	0.0-100.0% 0.0-100.0%
CD14 CD15	N/A N/A	Flow Cytometry Flow Cytometry	Navios Flow Cytometer Navios Flow Cytometer	% %	N/A N/A	N/A N/A	N/A N/A	N/A N/A	0.0-100.0% 0.0-100.0%
CD158b	N/A N/A	Flow Cytometry Flow Cytometry	Navios Flow Cytometer Navios Flow Cytometer	%	N/A N/A	N/A N/A	N/A N/A	N/A N/A	0.0-100.0% 0.0-100.0%
CD159a CD16	N/A	Flow Cytometry	Navios Flow Cytometer	%	N/A	N/A	N/A	N/A	0.0-100.0%
CD16-/CD56-/CD3-/CD117-	N/A	Flow Cytometry	Navios Flow Cytometer	%/ ABS	5.2-23.0% 1-619 ABS/mm ³	N/A	OSU Flow Lab established	N/A	0.0-100.0%
CD16-/CD56-/CD3+/CD117-	N/A	Flow Cytometry	Navios Flow Cytometer	%/ ABS	57.2-82.8%	N/A	OSU Flow Lab established	N/A	0.0-100.0%
CD16:/CD56:/CD3+/CD117+	N/A	Flow Cytometry	Navios Flow Cytometer	%/ ABS	570-2430 ABS/mm ³ 0.0-0.0%	N/A	OSU Flow Lab established	N/A	0.0-100.0%
	N/A	Flow Cytometry	Navios Flow Cytometer	%/ ABS	0-0 ABS/mm ³ 0.2-1.1%	N/A		NA	
CD16-/CD56+/CD3-/CD117-	N/A	Flow Cytometry	Navios Flow Cytometer	%/ ABS	3-24 ABS/mm ³	N/A	OSU Flow Lab established	N/A	0.0-100.0%
CD16-/CD56+/CD3-/CD117+	N/A	Flow Cytometry	Navios Flow Cytometer	%/ABS	0.0-0.2% 0-3 ABS/mm ³	N/A	OSU Flow Lab established	N/A	0.0-100.0%
CD16-/CD56+/CD3+/CD117-	N/A	Flow Cytometry	Navios Flow Cytometer	%/ ABS	0.0-7.0%	N/A	OSU Flow Lab established	N/A	0.0-100.0%
CD16-/CD56+/CD3+/CD117+	N/A		N : P G	%/ ABS	0-157 ABS/mm ³ 0.0-0.0%	N/A	OSU Flow Lab established	N/A	0.0-100.0%
		Flow Cytometry	Navios Flow Cytometer		0-0 ABS/mm ³ 0.0-5.2%				
CD16+/CD56-/CD3-/CD117-	N/A	Flow Cytometry	Navios Flow Cytometer	%/ ABS	0-122 ABS/mm ³	N/A	OSU Flow Lab established	N/A	0.0-100.0%
CD16+/CD56-/CD3+/CD117-	N/A	Flow Cytometry	Navios Flow Cytometer	%/ABS	0.0-1.6% 0-36 ABS/mm ³	N/A	OSU Flow Lab established	N/A	0.0-100.0%
CD16+/CD56-/CD3+/CD117+	N/A	Flow Cytometry	Navios Flow Cytometer	%/ ABS	0.0-0.0%	N/A	OSU Flow Lab established	N/A	0.0-100.0%
					0-0 ABS/mm ³ 0.0-17.9%				
CD16+/CD56+/CD3-/CD117-	N/A	Flow Cytometry	Navios Flow Cytometer	%/ABS	0-446 ABS/mm ³	N/A	OSU Flow Lab established	N/A	0.0-100.0%
CD16+/CD56+/CD3-/CD117+	N/A	Flow Cytometry	Navios Flow Cytometer	%/ ABS	0.0-0.0% 0-0 ABS/mm ³	N/A	OSU Flow Lab established	N/A	0.0-100.0%
CD16+/CD56+/CD3+/	N/A	Flow Cytometry	Navios Flow Cytometer	% / ABS	0.0-2.1% 0-49 ABS/mm ³	N/A	OSU Flow Lab established	N/A	0.0-100.0%
CD117- CD16+/CD56+/CD3+/	N/A	Flow Cytometry	Navios Flow Cytometer	% / ABS	0.0-0.0%	N/A	OSU Flow Lab established	N/A	0.0-100.0%
CD117+ CD183	N/A N/A	Flow Cytometry Flow Cytometry	Navios Flow Cytometer Navios Flow Cytometer	% / ABS	0-0 ABS/mm ³ N/A	N/A N/A	OSU Flow Lab established N/A	N/A N/A	0.0-100.0%
CD19	N/A	Flow Cytometry	Navios Flow Cytometer	%	N/A 2.0-21.0%	N/A	N/A	N/A	0.0-100.0%
CD19	N/A	Flow Cytometry	Navios Flow Cytometer	% / absolutes	2.0-21.0% 17-750 ABS/mm ³	N/A	OSU Flow Lab established	N/A	0.0-100.0%
CD19 Recombinant Protein	CD19 Probe, CD19 CAR T	Flow Cytometry	Navios Flow Cytometer	96	N/A	N/A	Known value, circulating CAR T can only be found in infused natients	0.1-100.0	0.1-100.0
CD19+/CD80-	N/A	Flow Cytometry	Navios Flow Cytometer	%/ABS	3.6-20.5% 0-557 ABS/mm ³	N/A	OSU Flow Lab established	N/A	0.0-100.0%
CD19+/CD80-/CD86-	N/A	Flow Cytometry	Navios Flow Cytometer	%/ ABS	3.2-19.8%	N/A	OSU Flow Lab established	N/A	0.0-100.0%
					0-534 ABS/mm ³ 0.0-0.4%				
CD19+/CD80+	N/A	Flow Cytometry	Navios Flow Cytometer	%/ ABS	0-11 ABS/mm ³	N/A	OSU Flow Lab established	N/A	0.0-100.0%
CD19+/CD80+/CD86+	N/A	Flow Cytometry	Navios Flow Cytometer	% / ABS	0.0-0.0% 0-0 ABS/mm ³	N/A	OSU Flow Lab established	N/A	0.0-100.0%
CD19+/CD86-	N/A	Flow Cytometry	Navios Flow Cytometer	%/ABS	2.9-20.7%	N/A	OSU Flow Lab established	N/A	0.0-100.0%
CD19+/CD86+	N/A		Navios Flow Cytometer	%/ ABS	0-554 ABS/mm ³ 0.0-0.5%	N/A	OSU Flow Lab established	N/A	0.0-100.0%
		Flow Cytometry	,	%/ ABS	0-14 ABS/mm ³		OSU Flow Lab established		0.0-100.0%
CD193 CD194	CCR3 CCR4	Flow Cytometry Flow Cytometry	Navios Flow Cytometer Navios Flow Cytometer	% %	N/A N/A	N/A N/A	N/A N/A	N/A N/A	0.0-100.0%
CD2	TII	Flow Cytometry	Navios Flow Cytometer	% %/ absolutes	N/A 70.0-92.0%	N/A N/A	N/A OSU Flow Lab established	N/A N/A	0.0-100.0%
CD2 CD20	N/A	Flow Cytometry Flow Cytometry	Navios Flow Cytometer Navios Flow Cytometer	% / absolutes	581-3284 ABS/mm ³ N/A	N/A N/A	OSU Flow Lab established N/A	N/A N/A	0.0-100.0%
CD20	N/A N/A	Flow Cytometry	Navios Flow Cytometer	% / absolutes	2.0-21.0%	N/A	OSU Flow Lab established	N/A	0.0-100.0%
CD22	N/A	Flow Cytometry	Navios Flow Cytometer	%	17-750 ABS/mm ³ N/A	N/A	N/A	N/A	0.0-100.0%
CD23 CD235	N/A Glycophorin A	Flow Cytometry Flow Cytometry	Navios Flow Cytometer Navios Flow Cytometer	% %	N/A N/A	N/A N/A	N/A N/A	N/A N/A	0.0-100.0% 0.0-100.0%
CD24	N/A	Flow Cytometry	Navios Flow Cytometer	%	N/A	N/A	N/A	N/A N/A	0.0-100.0% 0.0-100.0%
CD25	N/A								
CD26	N/A	Flow Cytometry Flow Cytometry	Navios Flow Cytometer Navios Flow Cytometer	% %	N/A N/A	N/A N/A	N/A N/A	N/A	0.0-100.0%
	N/A N/A N/A			% % % %			N/A N/A N/A N/A		
CD26 CD27 CD28 CD29	N/A N/A N/A	Flow Cytometry Flow Cytometry Flow Cytometry Flow Cytometry	Navios Flow Cytometer Navios Flow Cytometer Navios Flow Cytometer Navios Flow Cytometer	% % % % % % % % % % % % % % % % % % %	N/A N/A N/A N/A	N/A N/A N/A N/A	N/A N/A N/A	N/A N/A N/A N/A	0.0-100.0% 0.0-100.0% 0.0-100.0% 0.0-100.0%
CD26 CD27 CD28 CD29 CD29 CD3	N/A N/A N/A N/A T-CELL	Flow Cytometry Flow Cytometry Flow Cytometry Flow Cytometry Flow Cytometry Flow Cytometry	Navios Flow Cytometer	% %	N/A N/A N/A N/A N/A N/A	N/A N/A N/A N/A N/A N/A	N/A N/A N/A N/A N/A	N/A N/A N/A N/A N/A N/A	0.0-100.0% 0.0-100.0% 0.0-100.0% 0.0-100.0% 0.0-100.0%
CD26 CD27 CD28 CD29 CD29 CD294 CD3 CD3	N/A N/A N/A N/A N/A T-CFLL T-CFLL	Flow Cytometry	Navios Flow Cytometer	% % % % % % % /absolutes %	N/A N/A N/A N/A N/A N/A N/A N/A N/A S9.0-92.0%	N/A N/A N/A N/A N/A N/A N/A	N/A N/A N/A N/A N/A N/A	N/A N/A N/A N/A N/A N/A N/A	0.0-100.0% 0.0-100.0% 0.0-100.0% 0.0-100.0% 0.0-100.0% 0.0-100.0% 0.0-100.0%
CD26 CD27 CD28 CD29 CD29 CD294 CD3 CD3	N/A N/A N/A N/A N/A T-CELL T-CELL	Flow Cytometry	Navios Flow Cytometer	% 96 96 96 96 96 96 96 96 96 96 96 96 96	N/A N/A N/A N/A N/A N/A N/A	N/A N/A N/A N/A N/A N/A N/A N/A	N/A	N/A N/A N/A N/A N/A N/A N/A N/A	0.0-100.0% 0.0-100.0% 0.1-100.0% 0.1-100.0% 0.0-100.0% 0.0-100.0% 0.0-100.0% 0.0-100.0%
CD26 CD27 CD28 CD29 CD29 CD294 CD3 CD3	N/A N/A N/A N/A N/A T-CFLL T-CFLL	Flow Cytometry	Navios Flow Cytometer	% % % % % % % /absolutes %	N/A N/A N/A N/A N/A N/A N/A N/A N/A S9.0-92.0% 490-3284ABS/mm ³ 0.0-0.2% 0-6 ABS/mm ³	N/A N/A N/A N/A N/A N/A N/A	N/A N/A N/A N/A N/A N/A	N/A N/A N/A N/A N/A N/A N/A	0.0-100.0% 0.0-100.0% 0.0-100.0% 0.0-100.0% 0.0-100.0% 0.0-100.0% 0.0-100.0%
CD26 CD27 CD28 CD29 CD29 CD294 CD3 CD3	N/A N/A N/A N/A N/A T-CELL T-CELL	Flow Cytometry	Navios Flow Cytometer	% 96 96 96 96 96 96 96 96 96 96 96 96 96	N/A	N/A N/A N/A N/A N/A N/A N/A N/A	N/A	N/A N/A N/A N/A N/A N/A N/A N/A	0.0-100.0% 0.0-100.0% 0.1-100.0% 0.1-100.0% 0.0-100.0% 0.0-100.0% 0.0-100.0% 0.0-100.0%
CD26 CD27 CD28 CD29 CD29 CD3 CD3 CD3 CD3 CD3 CD3 CD3	N/A N/A N/A N/A T-CFIL T-CELL T-CELL	Flow Cytometry	Navios Flow Cytometer	95 95 95 95 96 96 / absolutes 96 96 / absolutes 97 / Absolutes	N/A	N/A	N/A N/A N/A N/A N/A N/A N/A N/A N/A OSU Flow Lab established OSU Flow Lab established	N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A	0.0-100.0% 0.0-100.0% 0.0-100.0% 0.0-100.0% 0.0-100.0% 0.0-100.0% 0.0-100.0% 0.0-100.0% 0.0-100.0%
CD26 CD27 CD28 CD29 CD294 CD3 CD3 CD3 CD3 CD3 CD3 CD3-(CD5616-(CD514+ CD3-(CD5616-(CD63+ CD3-(CD5616-(CD69+	N/A N/A N/A N/A N/A N/A T-CP1L T-CP1L T-CP1L N/A N/A N/A N/A	Flow Cytometry Plow Cytometry	Navios Flow Cvtometer Navios Flow Cytometer	96 96 96 96 96 96 97 / absolutes 96 97 / absolutes 96 / ABS	N/A	NIA	N/A	N/A	0.0-100.0% 0.0-100.0% 0.0-100.0% 0.0-100.0% 0.0-100.0% 0.0-100.0% 0.0-100.0% 0.0-100.0% 0.0-100.0% 0.0-100.0%
CD26 CD27 CD27 CD28 CD24 CD34 CD3. CD3 CD3 CD3 CD3 CD3 CD3 CD3 CD3 CD3-CD5616-CD314+ CD3-CD5616-CD63+ CD3-CD5616-CD67a107b-	N/A	Benr Cotenetry Benr Cotenetry Denr Cotenetry	Navios Flow Cytometer	\$\frac{5}{5}\$ \$\frac{5}{5}\$ \$\frac{5}{5}\$ \$\frac{5}{5}\$ \$\frac{5}{5}\$ \$\frac{5}{5}\$ \$\frac{5}{5}\$ \$\frac{5}{5}\$ \$\frac{5}{5}\$ \$\frac{1}{5}\$ \$\	N/A	N/A	N/A	NA	0.0-100.0% 0.0-100.0% 0.0-100.0% 0.0-100.0% 0.0-100.0% 0.0-100.0% 0.0-100.0% 0.0-100.0% 0.0-100.0% 0.0-100.0% 0.0-100.0%
CD26 CD27 CD28 CD29 CD294 CD3 CD3 CD3 CD3 CD3 CD3 CD3-(CD5616-(CD514+ CD3-(CD5616-(CD63+ CD3-(CD5616-(CD69+	N/A N/A N/A N/A N/A N/A T-CP1L T-CP1L T-CP1L N/A N/A N/A N/A	Bus Cotometry How Cotometry Bus Cotometry Flow Cotometry Flow Cotometry Flow Cotometry Flow Cotometry	Navios Flow Cvtometer Navios Flow Cytometer	96 96 96 96 96 96 97 / absolutes 96 97 / absolutes 96 / ABS	NIA	NIA	N/A	N/A	0.0-100.0% 0.0-100.0% 0.0-100.0% 0.0-100.0% 0.0-100.0% 0.0-100.0% 0.0-100.0% 0.0-100.0% 0.0-100.0% 0.0-100.0%
CD26 CD27 CD27 CD28 CD24 CD34 CD3. CD3 CD3 CD3 CD3 CD3 CD3 CD3 CD3 CD3-CD5616-CD314+ CD3-CD5616-CD63+ CD3-CD5616-CD67a107b-	N/A	Benr Cotenetry Benr Cotenetry Denr Cotenetry	Navios Flow Cytometer	\$\frac{5}{5}\$ \$\frac{5}{5}\$ \$\frac{5}{5}\$ \$\frac{5}{5}\$ \$\frac{5}{5}\$ \$\frac{5}{5}\$ \$\frac{5}{5}\$ \$\frac{5}{5}\$ \$\frac{5}{5}\$ \$\frac{1}{5}\$ \$\	N/A	N/A	N/A	NA	0.0-100.0% 0.0-100.0% 0.0-100.0% 0.0-100.0% 0.0-100.0% 0.0-100.0% 0.0-100.0% 0.0-100.0% 0.0-100.0% 0.0-100.0% 0.0-100.0% 0.0-100.0%
CD26 CD27 CD32 CD34 CD3	N/A	Bus Cotometry How Cotometry Bus Cotometry Flow Cotometry Flow Cotometry Flow Cotometry Flow Cotometry	Navios Flow Cytometer New Device Flow Cytometer Navios Flow Cytometer	% % % % % % % % % % % % % % % % % % %	N/A	NVA	N/A	NIA	0.0-100.0% 0.0-100.0% 0.0-100.0% 0.0-100.0% 0.0-100.0% 0.0-100.0% 0.0-100.0% 0.0-100.0% 0.0-100.0% 0.0-100.0% 0.0-100.0% 0.0-100.0% 0.0-100.0% 0.0-100.0% 0.0-100.0%
CD26 CD27 CD27 CD28 CD28 CD3	N/A	Bear Coteneiry Dear Coteneiry Para Coteneiry	Navios Flow Cytometer	% % % % % % % % % % % % % % % % % % %	NIA	NYA	N/A	N/A	0.0-100.0% 0.0-100.0% 0.0-100.0% 0.0-100.0% 0.0-100.0% 0.0-100.0% 0.0-100.0% 0.0-100.0% 0.0-100.0% 0.0-100.0% 0.0-100.0% 0.0-100.0% 0.0-100.0% 0.0-100.0% 0.0-100.0%
CD2c CD27 CD27 CD264 CD3. CD3. CD3. CD3. CD3. CD3. CD3. CD3.	N/A	Bus Cotometry Bus Cotometry Plan Cotometry Plan Cotometry Plan Cotometry Plan Cotometry Bus Cotometry Bus Cotometry Bus Cotometry Flow Cytometry	Navios Flow Cytometer	% % % % % % % % % % % % % % % % % % %	N/A	NiA	N/A	N/A	0.0-100.0% 0.0-100.9% 0.0-100.9% 0.0-100.0% 0.0-100.0% 0.0-100.0% 0.0-100.0% 0.0-100.0% 0.0-100.0% 0.0-100.0% 0.0-100.0% 0.0-100.0% 0.0-100.0% 0.0-100.0% 0.0-100.0% 0.0-100.0% 0.0-100.0%
CD26 CD27 CD27 CD26 CD37 CD34 CD3 CD3 CD3 CD3-CD5616-CD514+ CD3-CD5616-CD69+ CD3-CD5616-CD69+ CD3-CD5616-CD159+	N/A	Bear Coteneiry Dear Coteneiry Para Coteneiry	Navios Flow Cytometer	% % % % % % % % % % % % % % % % % % %	N/A	NYA	N/A	N/A	0.0-100.0% 0.0-100.0% 0.0-100.0% 0.0-100.0% 0.0-100.0% 0.0-100.0% 0.0-100.0% 0.0-100.0% 0.0-100.0% 0.0-100.0% 0.0-100.0% 0.0-100.0% 0.0-100.0% 0.0-100.0% 0.0-100.0%
CD26 CD27 CD27 CD27 CD29 CD34 CD3 CD3 CD3 CD3 CD3 CD3 CD3 CD3 CD3-CD5616-CD314+ CD3-CD5616-CD1861-CD189 CD3-CD5616-CD189 CD3-CD5616-CD314+ CD3-CD5616-CD314+	N/A	Bus Cotometry Bus Cotometry Plan Cotometry Plan Cotometry Plan Cotometry Plan Cotometry Bus Cotometry Bus Cotometry Bus Cotometry Flow Cytometry	Navios Flow Cytometer	% % % % % % % % % % % % % % % % % % %	NIA	NiA	N/A	N/A	0.0-100.0% 0.0-100.9% 0.0-100.9% 0.0-100.0% 0.0-100.0% 0.0-100.0% 0.0-100.0% 0.0-100.0% 0.0-100.0% 0.0-100.0% 0.0-100.0% 0.0-100.0% 0.0-100.0% 0.0-100.0% 0.0-100.0% 0.0-100.0% 0.0-100.0%
CD26 CD27 CD27 CD28 CD37 CD34 CD3 CD3-(CD5616-CD314+ CD3-(CD5616-CD53+ CD3-(CD5616-CD69+ CD3-(CD5616-CD69+ CD3-(CD5616-CD198+ CD3-(CD5616-CD198+ CD3-(CD5616-CD198+ CD3-(CD5616-CD198+ CD3-(CD5616-CD198+ CD3-(CD5616-CD198+ CD3-(CD5616-CD198+ CD3-(CD5616-CD69+ CD3-(C	N/A	Bus Coteneity Bus Coteneity Plan Coteneity	Navios Flow Cytometer	% % % % % % % % % % % % % % % % % % %	NIA	NIA	NIA	N/A	0.0-100.07% 0.0-100.97% 0.0-100.97% 0.0-100.07% 0.0-100.07% 0.0-100.07% 0.0-100.07% 0.0-100.07% 0.0-100.07% 0.0-100.07% 0.0-100.07% 0.0-100.07% 0.0-100.07% 0.0-100.07% 0.0-100.07% 0.0-100.07% 0.0-100.07% 0.0-100.07%
CD26 CD27 CD27 CD26 CD27 CD36 CD3 CD3 CD3 CD3 CD3 CD3 CD3 CD3-CD5616-CD63+ CD3-CD5616-CD63+ CD3-CD5616-CD69+	N/A	Bus Cotenetry Bus Cotenetry Place Cotenetry	Navios Flow Cytometer	\$\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	N/A	NIA	NIA	N/A	0.0-100.0% 0.0-100.0% 0.0-100.0% 0.0-100.0% 0.0-100.0% 0.0-100.0% 0.0-100.0% 0.0-100.0% 0.0-100.0% 0.0-100.0% 0.0-100.0% 0.0-100.0% 0.0-100.0% 0.0-100.0% 0.0-100.0% 0.0-100.0% 0.0-100.0%
CD26 CD27 CD27 CD27 CD27 CD27 CD27 CD28 CD3	N/A	Fine Cotonetry How Cotonetry Fine Cotonetry	Navios Flow Cytometer	\$\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	NIA	NSA	NIA	NIA	0.0-100.07% 0.0-100.07%
CD26 CD27 CD27 CD27 CD27 CD27 CD27 CD27 CD37 CD3	N/A	Bus Cotenetry Bus Cotenetry Place Cotenetry	Navios Flow Cytometer	\$\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	NIA	NSA	NIA	NIA	0.0-100.07% 0.0-100.07%
CD26 CD27 CD27 CD27 CD27 CD27 CD27 CD28 CD3	N/A	Fine Cotonetry How Cotonetry Fine Cotonetry	Navios Flow Cytometer	\$\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	NIA	NSA	NIA	NIA	0.0-100.07% 0.0-100.07%
CD26 CD27 CD27 CD27 CD27 CD27 CD27 CD27 CD37 CD3	N/A	Fine Cotometry How Cotometry Fine Cotometry	Navios Flow Cytometer	\$\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	NIA	NSA	NIA	NIA	0.0-100.07% 0.0-100.07%
CD26 CD27 CD27 CD27 CD27 CD27 CD37 CD37 CD37 CD37 CD37 CD37 CD3616-CD514+ CD3-CD5616-CD63+ CD3-CD5616-CD17 CD3-CD5616-CD63+ CD3-CD5616-CD63+ CD3-CD5616-CD63+ CD3-CD5616-CD63+ CD3-CD5616-CD63+ CD3-CD154-	N/A	Fine Coteneity Fine Contention Fine Contention Fine Contention Fine Contention Fine Contention Fine Coteneity	Navios Flow Cytometer	\$\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	NIA	NYA	N/A	NIA	0.0-100.07% 0.0-100.07%
CD26 CD27 CD27 CD27 CD27 CD27 CD37 CD37 CD37 CD37 CD37 CD37 CD3616+CD314+ CD3-CD5616+CD158-107b+107b+107b-107b-107b-107b-107b-107b-107b-107b-	N/A	Ben Cotenetry Ben Cotenetry Pen Cotenetry	Navios Flow Cytometer	\$\frac{\sigma_{\chi_{\chi}}}{\sigma_{\chi_{\chi}}}\$ \$\frac{\sigma_{\chi_{\chi_{\chi}}}}{\sigma_{\chi_{\chi_{\chi}}}}\$ \$\frac{\sigma_{\chi_{\chi}}}{\sigma_{\chi_{\chi}}}\$ \$\frac{\sigma_{\chi}}{\sigma_{\chi}}\$ \text{habolate} \$\frac{\sigma_{\chi}}{\sigma_{\chi}}\$ \text{ABS}	N/A	NiA	NIA	N/A	0.0-100.07% 0.0-100.07%
CD26 CD27 CD27 CD27 CD27 CD27 CD37 CD37 CD37 CD37 CD37 CD37 CD3616-CD514+ CD3-CD5616-CD63+ CD3-CD5616-CD17 CD3-CD5616-CD63+ CD3-CD5616-CD63+ CD3-CD5616-CD63+ CD3-CD5616-CD63+ CD3-CD5616-CD63+ CD3-CD154-	N/A	Bear Cotensiery Dear Cotensiery Para Cotensier	Navios Flow Cytometer	\$\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	NIA	NIA	N/A	NIA	0.0-100.07% 0.0-100.07%
CD26 CD27 CD27 CD27 CD27 CD27 CD37 CD37 CD37 CD37 CD37 CD37 CD3616+CD314+ CD3-CD5616+CD158-107b+107b+107b-107b-107b-107b-107b-107b-107b-107b-	N/A	Ben Cotenetry Ben Cotenetry Pen Cotenetry	Navios Flow Cytometer	\$\frac{\sigma_{\chi_{\chi}}}{\sigma_{\chi}}\$ \$\frac{\sigma_{\chi_{\chi}}}{\sigma_{\chi}}\$ \$\frac{\sigma_{\chi_{\chi}}}{\sigma_{\chi_{\chi}}}\$ \$\frac{\sigma_{\chi}}{\sigma_{\chi}}\$ \$\fr	NIA	NiA	NIA	N/A	0.0-100.07% 0.0-100.07%
CD26 CD27 CD27 CD28 CD37 CD34 CD3 CD3-(CD5616-CD314+ CD3-(CD5616-CD63+ CD3-(CD616-CD63+ CD616-CD616-CD63+ CD3-(CD616-CD63+ CD616-CD616-CD63+ CD616-CD616-CD63+ CD616-CD616-CD63+ CD616-CD616-CD63+ CD616-CD616-CD616-CD63+ CD616-C	N/A	Ben Cotenetry Ben Cotenetry Pen Cotenetry	Navios Flow Cytometer	\$\frac{\sigma_{\chi_{\chi}}}{\sigma_{\chi}}\$ \$\frac{\sigma_{\chi_{\chi}}}{\sigma_{\chi}}\$ \$\frac{\sigma_{\chi_{\chi}}}{\sigma_{\chi_{\chi}}}\$ \$\frac{\sigma_{\chi}}{\sigma_{\chi}}\$ \$\frac{\sigma_{\chi}}{\sigma_{\chi}}}\$ \$\frac{\sigma_{\chi}}{\sigma_{\chi}}\$ \$\f	NIA	NIA	NIA	NA	0.0-100.07% 0.0-100.07%
CD26 CD27 CD27 CD27 CD27 CD27 CD27 CD37 CD3	N/A	Fine Coteneity	Navios Flow Cytometer	\$\frac{\sigma_{\chi\ti}}\chi_{\chi\ti}}\chi_{\chi_{\chi_{\chi_{\chi_{\chi_{\chi_{\chi_{\chi_{\chi\ti}}\chi_{\chi\ti}\}\chi_{\chi_{\chi_{\chi_{\chi_{\chi_{\chi_{\chi_{\chi_{\chi\ti}\}\chi_{\chi_{\chi_{\chi_{\chi_{\chi_{\chi_{\chi_{\chi_{\chi\ti}\}\chi_{\chi_{\chi_{\chi_{\chi_{\chi_{\chi_{\chi_{\chi_{\chi\ti}\}\}\chi_{\chi}\}\}\chi_{\chi_{\chi}\chi_{\chi_{\chi}\}\chi_{\chi_{\chi}\}\chi_{\chi_{\chi}\}\chi_{\chi\ti}\}\chi_{\chi_{\chi}\chi_{\chi}\}\chi_{\chi}\}\chi_{\chi}\chi\}\chi\}\chi\}\chi\}\chi\}\chi\}\chi\}\chi\}\chi\}\chi\}\chi\}\}\\ \chi\chi\}\}\}\}\}}}}}}}}}}}}}}}}}\\\\\\\\\\	N/A	NSA	NIA	NIA	0.0-100.07% 0.0-100.07%
CD26 CD27 CD27 CD27 CD27 CD27 CD27 CD3	N/A	Fine Coteneity	Navios Flow Cytometer	\$\frac{\sigma_{\begin{subarray}{l} \sigma_{\begin{subarray}{l} \sigma_{\begin}} \sigma_{\begin{subarray}{l} \sigma_{\begin{subarray}{l} \sigma	NIA	NYA	N/A	NIA	0.0-100.07% 0.0-100.07%
CD26 CD27 CD27 CD27 CD27 CD27 CD27 CD37 CD37 CD37 CD37 CD37 CD37 CD37 CD3	N/A	Fine Coteneity	Navios Flow Cytometer	\$\frac{9}{9}\$ \$\frac{1}{9}\$ \$\frac{9}{9}\$ \$\frac{1}{9}\$ \$\	NIA	NSA	NIA	NIA	0.0-100.07% 0.0-100.07%
CD26 CD27 CD27 CD27 CD27 CD27 CD27 CD27 CD27	N/A	Fine Coteneity	Navios Flow Cytometer	\$\frac{\sigma_{\begin{subarray}{l} \sigma_{\begin{subarray}{l} \sigma_{\begin}} \sigma_{\begin{subarray}{l} \sigma_{\begin{subarray}{l} \sigma	NIA	NYA	N/A	NIA	0.0-100.07% 0.0-100.07%
CD26 CD27 CD27 CD27 CD27 CD27 CD27 CD37 CD37 CD37 CD37 CD37 CD37 CD37 CD3	N/A	Fine Coteneity	Navios Flow Cytometer	\$\frac{9}{9}\$ \$\frac{1}{9}\$ \$\frac{9}{9}\$ \$\frac{1}{9}\$ \$\	NIA	NYA	NIA	NIA	0.0-100.07% 0.0-100.07%
CD26 CD27 CD27 CD27 CD27 CD27 CD27 CD27 CD37 CD37 CD37 CD37 CD37 CD37 CD37 CD3	NIA	Ben Coteneiry Ben Coteneiry Pen Coteneiry	Navios Flow Cytometer	\$\frac{\sigma_{\chi_{\chi}}}{\sigma_{\chi}}\$\frac{\sigma_{\chi_{\chi}}}{\sigma_{\chi}}\$\frac{\sigma_{\chi_{\chi}}}{\sigma_{\chi_{\chi}}}\$\frac{\sigma_{\chi_{\chi}}}{\sigma_{\chi_{\chi}}}\$\frac{\sigma_{\chi_{\chi}}}{\sigma_{\chi_{\chi}}} \frac{\sigma_{\chi_{\chi}}}{\sigma_{\chi}} \frac{\sigma_{\chi_{\chi}}}{\sigma_{\chi}} \frac{\sigma_{\chi_{\chi}}}{\sigma_{\chi}} \frac{\sigma_{\chi_{\chi}}}{\sigma_{\chi}} \frac{\sigma_{\chi_{\chi}}}{\sigma_{\chi}} \frac{\sigma_{\chi}}{\sigma_{\chi}} \frac{\sigma_{\chi}}{\sigma_{\chi}}}{\sigma_{\chi}} \frac{\sigma_{\chi}}{\sigma_{\chi}} \frac{\sigma_{\chi}}{\sigma_{\chi}}} \frac{\sigma_{\chi}}{\sigma_{\chi}} \frac{\sigma_{\chi}}{\sigma_{\chi}} \frac{\sigma_{\chi}}{\sigma_{\chi}} \frac{\sigma_{\chi}}{\sigma_{\chi}} \frac{\sigma_{\chi}}{\sigma_{\chi}} \frac{\sigma_{\chi}}{\sigma_{\chi}} \frac{\sigma_{\chi}}}{\sigma_{\chi}} \frac{\sigma_{\chi}}{\sigma_{\chi}} \frac{\sigma_{\chi}}{\sigma_	NIA	NiA	NIA	NIA	0.0-100.07% 0.0-100.07%
CD26 CD27 CD27 CD27 CD27 CD27 CD27 CD37 CD3	NIA	Bus Cotometry How Cotometry Ho	Navios Flow Cytometer	\$\frac{\sigma_{\chi_{\chi}}}{\sigma_{\chi}}\$\frac{\sigma_{\chi_{\chi}}}{\sigma_{\chi}}\$\frac{\sigma_{\chi_{\chi}}}{\sigma_{\chi_{\chi}}}\$\frac{\sigma_{\chi_{\chi}}}{\sigma_{\chi_{\chi}}}\$\frac{\sigma_{\chi_{\chi}}}{\sigma_{\chi}}\$\frac{\sigma_{\chi}}{\sigma_{\chi}}\$\frac{\sigma_{\chi}}{\sigma_{\chi}}\$\frac{\sigma_{\chi}}{\sigma_{\chi}}\$\frac{\sigma_{\chi}}{\sigma_{\chi}}\$\frac{\sigma_{\chi}}{\sigma_{\chi}}\$\frac{\sigma_{\chi}}{\sigma_{\chi}}\$\frac{\sigma_{\chi}}{\sigma_{\chi}}\$\frac{\sigma_{\chi}}{\sigma_{\chi}}\$\frac{\sigma_{\chi}}{\sigma_{\chi}}\$\frac{\sigma_{\chi}}{\sigma_{\chi}} \frac{\sigma_{\chi}}{\sigma_{\chi}} \sigma_{\c	NIA	NSA	NIA	NIA	0.0-100.0% 0.0-100.0%
CD26 CD27 CD27 CD27 CD27 CD27 CD27 CD27 CD37 CD37 CD37 CD37 CD37 CD37 CD37 CD3	NIA	Ben Coteneiry Ben Coteneiry Pen Coteneiry	Navios Flow Cytometer	\$\frac{\sigma_{\chi_{\chi}}}{\sigma_{\chi}}\$\frac{\sigma_{\chi_{\chi}}}{\sigma_{\chi}}\$\frac{\sigma_{\chi_{\chi}}}{\sigma_{\chi_{\chi}}}\$\frac{\sigma_{\chi_{\chi}}}{\sigma_{\chi_{\chi}}}\$\frac{\sigma_{\chi_{\chi}}}{\sigma_{\chi_{\chi}}} \frac{\sigma_{\chi_{\chi}}}{\sigma_{\chi}} \frac{\sigma_{\chi_{\chi}}}{\sigma_{\chi}} \frac{\sigma_{\chi_{\chi}}}{\sigma_{\chi}} \frac{\sigma_{\chi_{\chi}}}{\sigma_{\chi}} \frac{\sigma_{\chi_{\chi}}}{\sigma_{\chi}} \frac{\sigma_{\chi}}{\sigma_{\chi}} \frac{\sigma_{\chi}}{\sigma_{\chi}}}{\sigma_{\chi}} \frac{\sigma_{\chi}}{\sigma_{\chi}} \frac{\sigma_{\chi}}{\sigma_{\chi}}} \frac{\sigma_{\chi}}{\sigma_{\chi}} \frac{\sigma_{\chi}}{\sigma_{\chi}} \frac{\sigma_{\chi}}{\sigma_{\chi}} \frac{\sigma_{\chi}}{\sigma_{\chi}} \frac{\sigma_{\chi}}{\sigma_{\chi}} \frac{\sigma_{\chi}}{\sigma_{\chi}} \frac{\sigma_{\chi}}}{\sigma_{\chi}} \frac{\sigma_{\chi}}{\sigma_{\chi}} \frac{\sigma_{\chi}}{\sigma_	NIA	NiA	NIA	NIA	0.0-100.07% 0.0-100.07%
CD26 CD27 CD27 CD27 CD27 CD27 CD27 CD37 CD3	NIA	Bus Cotometry How Cotometry Ho	Navios Flow Cytometer	\$\frac{\sigma_{\chi_{\chi}}}{\sigma_{\chi}}\$\frac{\sigma_{\chi_{\chi}}}{\sigma_{\chi}}\$\frac{\sigma_{\chi_{\chi}}}{\sigma_{\chi_{\chi}}}\$\frac{\sigma_{\chi_{\chi}}}{\sigma_{\chi_{\chi}}}\$\frac{\sigma_{\chi_{\chi}}}{\sigma_{\chi}}\$\frac{\sigma_{\chi}}{\sigma_{\chi}}\$\frac{\sigma_{\chi}}{\sigma_{\chi}}\$\frac{\sigma_{\chi}}{\sigma_{\chi}}\$\frac{\sigma_{\chi}}{\sigma_{\chi}}\$\frac{\sigma_{\chi}}{\sigma_{\chi}}\$\frac{\sigma_{\chi}}{\sigma_{\chi}}\$\frac{\sigma_{\chi}}{\sigma_{\chi}}\$\frac{\sigma_{\chi}}{\sigma_{\chi}}\$\frac{\sigma_{\chi}}{\sigma_{\chi}}\$\frac{\sigma_{\chi}}{\sigma_{\chi}} \frac{\sigma_{\chi}}{\sigma_{\chi}} \sigma_{\c	NIA	NSA	NIA	NIA	0.0-100.0% 0.0-100.0%
CD26 CD27 CD27 CD27 CD27 CD27 CD27 CD27 CD37 CD37 CD37 CD37 CD37 CD37 CD37 CD3	N/A	Bear Coteneiry Flow Coteneiry	Navios Flow Cytometer	\$\frac{\sigma_{\chi\ti}}\chi_{\chi\ti}}\chi_{\chi_{\chi_{\chi_{\chi_{\chi_{\chi_{\chi_{\chi_{\chi\ti}\}\chi_{\chi_{\chi_{\chi_{\chi_{\chi_{\chi_{\chi_{\chi_{\chi\ti}\}\chi_{\chi_{\chi_{\chi_{\chi_{\chi_{\chi_{\chi_{\chi_{\chi\ti}\}\chi_{\chi_{\chi_{\chi_{\chi_{\chi_{\chi_{\chi_{\chi_{\chi\ti}\}\chi_{\chi_{\chi_{\chi_{\chi_{\chi_{\chi_{\chi_{\chi_{\chi\ti}\}\}\chi_{\chi_{\chi_{\chi_{\chi_{\chi_{\chi_{\chi}\}\chi_{\chi_{\chi_{\chi_{\chi_{\chi_{\chi_{\chi_{\chi_{\chi}\}\chi_{\chi\ti}\}\chi_{\chi_{\chi}\}\chi_{\chi}\}\chi_{\chi}\chi}\chi_{\chi\ii}\}\chi\}\chi\chi\}\chi\}\chi\}\chi\}\chi\}\chi\}\chi\}\chi\}\}\\\\\\\\\\	NIA	NYA	NIA	NIA	0.0-100.07% 0.0-100.07%
CD26 CD27 CD27 CD27 CD27 CD27 CD27 CD27 CD27	N/A	Bear Cotensiery How Cotensiery Flow Cytometry Bear Cotensiery Flow Cytometry Flow	Navios Flow Cytometer	"5" "5" "5" "5" "5" "5" "5" "5" "5" "5"	NIA	NYA	NIA	NIA	0.0-100.07% 0.0-100.07%
CD26 CD27 CD27 CD27 CD27 CD27 CD27 CD27 CD27	NIA	Fine Coteneity	Navios Flow Cytometer	"5" "5" "5" "5" "5" "5" "5" "5" "5" "5"	NIA	NYA	NIA	NIA	0.0-100.0% 0.0-100.0%
CD26 CD27 CD27 CD27 CD27 CD27 CD27 CD27 CD27	N/A	Bear Cotensiery How Cotensiery Flow Cytometry Bear Cotensiery Flow Cytometry Flow	Navios Flow Cytometer	"5" "5" "5" "5" "5" "5" "5" "5" "5" "5"	NIA	NYA	NIA	NIA	0.0-100.07% 0.0-100.07%
CD26 CD27 CD27 CD27 CD27 CD27 CD27 CD27 CD27	NIA	Fine Coteneity	Navios Flow Cytometer	"5" "5" "5" "5" "5" "5" "5" "5" "5" "5"	NIA	NYA	NIA	NIA	0.0-100.0% 0.0-100.0%
CD26 CD27 CD27 CD27 CD27 CD27 CD27 CD37 CD3	N/A	Bene Cotometry Bene C	Navios Flow Cytometer	\$\frac{\sigma_{\chi\ti}}\chi_{\chi\ti}}\chi_{\chi_{\chi_{\chi_{\chi_{\chi_{\chi_{\chi_{\chi_{\chi\ti}\}\chi_{\chi_{\chi_{\chi_{\chi_{\chi_{\chi_{\chi_{\chi_{\chi\ti}\}\chi_{\chi_{\chi_{\chi_{\chi_{\chi_{\chi_{\chi_{\chi_{\chi\ti}\}\chi_{\chi_{\chi_{\chi_{\chi_{\chi_{\chi_{\chi_{\chi_{\chi\ti}\}\chi_{\chi_{\chi_{\chi_{\chi_{\chi_{\chi_{\chi_{\chi_{\chi\ti}\}\}\chi_{\chi_{\chi_{\chi_{\chi_{\chi_{\chi_{\chi_{\chi_{\chi}\}\chi_{\chi_{\chi_{\chi_{\chi_{\chi_{\chi_{\chi_{\chi}\}\chi\}\chi_{\chi_{\chi}\}\chi_{\chi_{\chi}\chi_{\chi_{\chi}\}\chi_{\chi}\chi}\chi_{\chi}\chi_{\chi}\chi_{\chi}\chi_{\chi}\chi_{\chi}\chi_{\chi}\chi_{\chi}\chi}\chi_{\chi}\chi_{\chi}\chi}\chi}\chi}\chi\chi}\chi\chi\}\chi\chi}\chi\chi\}\chi\chi\}\chi\}\chi\chi\ch	NIA	NIA	NIA	NIA	0.0-100.07% 0.0-100.07%
CD26 CD27 CD27 CD27 CD27 CD27 CD27 CD27 CD37 CD3	NIA	Bus Cotometry How Cotometry Ho	Navios Flow Cytometer	\$\frac{\sigma_{\chi_{\chi}}}{\sigma_{\chi}}\$\frac{\sigma_{\chi_{\chi}}}{\sigma_{\chi}}\$\frac{\sigma_{\chi_{\chi}}}{\sigma_{\chi_{\chi}}}\$\frac{\sigma_{\chi_{\chi}}}{\sigma_{\chi_{\chi}}}\$\frac{\sigma_{\chi_{\chi}}}{\sigma_{\chi}} \frac{\sigma_{\chi}}{\sigma_{\chi}} \sigma_{\c	NIA	NSA	NIA	NIA	0.0-100.07% 0.0-100.07%
CD26 CD27 CD27 CD27 CD27 CD27 CD27 CD27 CD37 CD3	N/A	Bene Cotometry Bene C	Navios Flow Cytometer	\$\frac{\sigma_{\chi\ti}}\chi_{\chi\ti}}\chi_{\chi_{\chi_{\chi_{\chi_{\chi_{\chi_{\chi_{\chi_{\chi\ti}\}\chi_{\chi_{\chi_{\chi_{\chi_{\chi_{\chi_{\chi_{\chi_{\chi\ti}\}\chi_{\chi_{\chi_{\chi_{\chi_{\chi_{\chi_{\chi_{\chi_{\chi\ti}\}\chi_{\chi_{\chi_{\chi_{\chi_{\chi_{\chi_{\chi_{\chi_{\chi\ti}\}\chi_{\chi_{\chi_{\chi_{\chi_{\chi_{\chi_{\chi_{\chi_{\chi\ti}\}\}\chi_{\chi_{\chi_{\chi_{\chi_{\chi_{\chi_{\chi_{\chi_{\chi}\}\chi_{\chi_{\chi_{\chi_{\chi_{\chi_{\chi_{\chi_{\chi}\}\chi\}\chi_{\chi_{\chi}\}\chi_{\chi_{\chi}\chi_{\chi_{\chi}\}\chi_{\chi}\chi}\chi_{\chi}\chi_{\chi}\chi_{\chi}\chi_{\chi}\chi_{\chi}\chi_{\chi}\chi_{\chi}\chi}\chi_{\chi}\chi_{\chi}\chi}\chi}\chi}\chi\chi}\chi\chi\}\chi\chi}\chi\chi\}\chi\chi\}\chi\}\chi\chi\ch	NIA	NIA	NIA	NIA	0.0-100.07% 0.0-100.07%
CD26 CD27 CD27 CD27 CD27 CD27 CD27 CD27 CD27	NIA	Bus Cotometry How Cotometry Ho	Navios Flow Cytometer	\$\frac{\sigma_{\chi_{\chi}}}{\sigma_{\chi}}\$\frac{\sigma_{\chi_{\chi}}}{\sigma_{\chi}}\$\frac{\sigma_{\chi_{\chi}}}{\sigma_{\chi_{\chi}}}\$\frac{\sigma_{\chi_{\chi}}}{\sigma_{\chi_{\chi}}}\$\frac{\sigma_{\chi_{\chi}}}{\sigma_{\chi}} \frac{\sigma_{\chi}}{\sigma_{\chi}} \sigma_{\c	NIA	NSA	NIA	NIA	0.0-100.07% 0.0-100.07%
CD26 CD27 CD27 CD27 CD27 CD27 CD27 CD27 CD27	N/A	Bus Cotometry How Cotometry Ho	Navios Flow Cytometer	"5" "5" "5" "5" "5" "5" "5" "5" "5" "5"	NIA	NSA	NIA	NIA	0.0-100.075 0.0-100.075
CD26 CD27 CD27 CD27 CD27 CD27 CD27 CD27 CD27	NIA	Bear Cotenseity How Cotenseity Bear Cotenseity	Navios Flow Cytometer	\$\frac{\sigma_{\chi\ti}}\chi_{\chi\ti}}\}}\chi_{\chi}\}\chi_{\chi_{\chi_{\chi_{\chi_{\chi_{\chi_{\chi_{\chi}\}\chi_{\chi_{\chi_{\chi_{\chi_{\chi_{\chi_{\chi}\}\chi_{\chi_{\chi}\}\chi_{\chi}\chi_{\chi}\}\chi_{\chi}\chi_{\chi}\}\chi_{\chi}\chi_{\chi}\chi_{\chi_{\chi}\}\chi_{\chi_{\chi_{\chi}\chi}\}\chi_{\chi\chi}\}\chi_{\chi}\chi}\chi}\chi}\chi\chi}\chi}\chi_{\chi}\chi}\c	NIA	NIA	NIA	NIA	0.0-100.075 0.0-100.075

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CD34 CD34	N/A N/A	Flow Cytometry Flow Cytometry	Navios Flow Cytometer Navios Flow Cytometer	96 96	N/A N/A	N/A N/A	N/A N/A	N/A N/A	0.0-100.0% 0.0-100.0%
CD38 CD4	N/A N/A	Flow Cytometry Flow Cytometry	Navios Flow Cytometer Navios Flow Cytometer	% %	N/A N/A	N/A N/A	N/A N/A	N/A N/A	0.0-100.0%
CD4+/CD193+/CD294+/ CD194+	N/A	Flow Cytometry	Navios Flow Cytometer	% / ABS	0.0-0.0% 0-0 ABS/mm ³	N/A	OSU Flow Lab established	N/A	0.0-100.0%
	27/4		N : P 0: .	ar / App	0-0 ABS/mm ⁻ 30.6-53.9%	2//	OTTE TI TELL	2//	0.0.100.00/
CD4+/CD127+	N/A	Flow Cytometry	Navios Flow Cytometer	%/ABS	318-1487 ABS/mm ³ 6.7-30.5%	N/A	OSU Flow Lab established	N/A	0.0-100.0%
CD4+/CD183+	N/A	Flow Cytometry	Navios Flow Cytometer	%/ABS	6.7-30.5% 84-696 ABS/mm ³	N/A	OSU Flow Lab established	N/A	0.0-100.0%
CD4+/CD193+	N/A	Flow Cytometry	Navios Flow Cytometer	%/ ABS	0.0-0.1%	N/A	OSU Flow Lab established	N/A	0.0-100.0%
					0-3 ABS/mm ³ 0.0-0.0%				
CD4+/CD193+/CD183+	N/A	Flow Cytometry	Navios Flow Cytometer	%/ ABS	0-0 ABS/mm ³	N/A	OSU Flow Lab established	N/A	0.0-100.0%
CD4+/CD193+/CD194+	N/A	Flow Cytometry	Navios Flow Cytometer	%/ ABS	0.0-0.0% 0-0 ABS/mm ³	N/A	OSU Flow Lab established	N/A	0.0-100.0%
CD4+/CD193+/CD294+	N/A	Flow Cytometry	Navios Flow Cytometer	%/ ABS	0.0-0.0%	N/A	OSU Flow Lab established	N/A	0.0-100.0%
CD4+/CD193+/CD294+/CD183					0-0 ABS/mm ³ 0.0-0.0%				
+	N/A	Flow Cytometry	Navios Flow Cytometer	% / ABS	0-0 ABS/mm ³	N/A	OSU Flow Lab established	N/A	0.0-100.0%
CD4+/CD194+	N/A	Flow Cytometry	Navios Flow Cytometer	%/ ABS	0.0-27.8% 0-560 ABS/mm ³	N/A	OSU Flow Lab established	N/A	0.0-100.0%
CD4+/CD25+	N/A	Flow Cytometry	Navios Flow Cytometer	%/ABS	0.0-3.2%	N/A	OSU Flow Lab established	N/A	0.0-100.0%
					0-68 ABS/mm ³ 0.0-2.1%				
CD4+/CD25+/CD127-	N/A	Flow Cytometry	Navios Flow Cytometer	% / ABS	0-43 ABS/mm ³	N/A	OSU Flow Lab established	N/A	0.0-100.0%
CD4+/CD25+/CD127+	N/A	Flow Cytometry	Navios Flow Cytometer	% / ABS	0.0-1.4% 0-30 ABS/mm ³	N/A	OSU Flow Lab established	N/A	0.0-100.0%
CD4+/CD27+/CD45RA-	N/A	Flow Cytometry	Navios Flow Cytometer	%/ABS	0.0-2.5%	N/A	OSU Flow Lab established	N/A	0.0-100.0%
/CD45RO- CD4+/CD29+/CD45RA-			*		0-61 ABS/mm ³ 0.0-0.7%				
/CD45RO-	N/A	Flow Cytometry	Navios Flow Cytometer	% / ABS	0-17 ABS/mm ³	N/A	OSU Flow Lab established	N/A	0.0-100.0%
CD4+/CD294+	N/A	Flow Cytometry	Navios Flow Cytometer	%/ ABS	0.0-0.8% 0-23 ABS/mm ³	N/A	OSU Flow Lab established	N/A	0.0-100.0%
CD4+/CD294+/CD194+	N/A	Flow Cytometry	Navios Flow Cytometer	%/ ABS	0.0-0.2%	N/A	OSU Flow Lab established	N/A	0.0-100.0%
					0-4 ABS/mm ³ 32.0-62.0%				
CD4+/CD3+	T Helper	Flow Cytometry	Navios Flow Cytometer	96	266-2213 ABS/mm ³	N/A	OSU Flow Lab established	N/A	0.0-100.0%
CD4+/CD3+	T Helper	Flow Cytometry	Navios Flow Cytometer	%	N/A 32.0-62.0%	N/A	N/A	N/A	0.0-100.0%
CD4+/CD3+	T Helper	Flow Cytometry	Navios Flow Cytometer	% / absolutes	266-2213 ABS/mm ³	N/A	OSU Flow Lab established	N/A	0.0-100.0%
CD4+/CD45RA+	N/A	Flow Cytometry	Navios Flow Cytometer	%/ ABS	6.4-36.3% 58-842 ABS/mm ³	N/A	OSU Flow Lab established	N/A	0.0-100.0%
CD4+/CD45RA+/CD27-	N/A	Flow Cytometry	Navios Flow Cytometer	%/ ABS	0.0-0.08%	N/A	OSU Flow Lab established	N/A	0.0-100.0%
			*		0-18 ABS/mm ³ 4.6-30.2%				
CD4+/CD45RA+/CD27+	N/A	Flow Cytometry	Navios Flow Cytometer	%/ ABS	0-783 ABS/mm ³	N/A	OSU Flow Lab established	N/A	0.0-100.0%
CD4+/CD45RA+/CD29+	N/A	Flow Cytometry	Navios Flow Cytometer	%/ ABS	2.5-26.1% 0-666 ABS/mm ³	N/A	OSU Flow Lab established	N/A	0.0-100.0%
CD4+/CD45RA+/CD29+	N/A	Flow Cytometry	Navios Flow Cytometer	%/ ABS	0.3-5.9%	N/A	OSU Flow Lab established	N/A	0.0-100.0%
					0-145 ABS/mm ³ 14.3-45.8%				
CD4+/CD45RO+	N/A	Flow Cytometry	Navios Flow Cytometer	%/ ABS	187-1078 ABS/mm ³	N/A	OSU Flow Lab established	N/A	0.0-100.0%
CD4+/CD45RO+/CD27-	N/A	Flow Cytometry	Navios Flow Cytometer	%/ABS	0.0-8.0% 0-163 ABS/mm ³	N/A	OSU Flow Lab established	N/A	0.0-100.0%
CD4+/CD45RO+/CD27+	N/A	Flow Cytometry	Navios Flow Cytometer	%/ ABS	9.9-36.1%	N/A	OSU Flow Lab established	N/A	0.0-100.0%
					94-901 ABS/mm ³ 0.9-8.4%				
CD4+/CD45RO+/CD29-	N/A	Flow Cytometry	Navios Flow Cytometer	%/ ABS	2-201 ABS/mm ³	N/A	OSU Flow Lab established	N/A	0.0-100.0%
CD4+/CD45RO+/CD29+	N/A	Flow Cytometry	Navios Flow Cytometer	%/ABS	8.7-34.6% 83-848 ABS/mm ³	N/A	OSU Flow Lab established	N/A	0.0-100.0%
CD41	N/A	Flow Cytometry	Navios Flow Cytometer	%	N/A	N/A	N/A	N/A	0.0-100.0%
CD43 CD45	N/A N/A	Flow Cytometry Flow Cytometry	Navios Flow Cytometer Navios Flow Cytometer	% %	N/A N/A	N/A N/A	N/A N/A	N/A N/A	0.0-100.0%
CD45RA	N/A N/A	Flow Cytometry Flow Cytometry	Navios Flow Cytometer	%	N/A N/A	N/A N/A	N/A N/A	N/A N/A	0.0-100.0% 0.0-100.0%
CD45RO CD49a	N/A	Flow Cytometry	Navios Flow Cytometer Navios Flow Cytometer	76 96	N/A	N/A	N/A	N/A N/A	0.0-100.0%
CD5 CD56	N/A N/A	Flow Cytometry Flow Cytometry	Navios Flow Cytometer Navios Flow Cytometer	96	N/A N/A	N/A N/A	N/A N/A	N/A N/A	0.0-100.0% 0.0-100.0%
CD5616+/CD3-	N/A	Flow Cytometry	Navios Flow Cytometer	%	N/A 3.0-25.0%	N/A	N/A	N/A	0.0-100.0%
CD5616+/CD3-	N/A	Flow Cytometry	Navios Flow Cytometer	% / absolutes	25-893mm ³	N/A	N/A	N/A	0.0-100.0%
CD57 CD58	N/A N/A	Flow Cytometry Flow Cytometry	Navios Flow Cytometer Navios Flow Cytometer	%	N/A N/A	N/A N/A	N/A N/A	N/A N/A	0.0-100.0%
CD63	N/A	Flow Cytometry	Navios Flow Cytometer	%	N/A	N/A	N/A	N/A	0.0-100.0%
CD64 CD65	N/A N/A	Flow Cytometry Flow Cytometry	Navios Flow Cytometer Navios Flow Cytometer	% %	N/A N/A	N/A N/A	N/A N/A	N/A N/A	0.0-100.0% 0.0-100.0%
CD7 CD71	N/A N/A	Flow Cytometry Flow Cytometry	Navios Flow Cytometer Navios Flow Cytometer	%	N/A N/A	N/A N/A	N/A N/A	N/A N/A	0.0-100.0% 0.0-100.0%
CD79b	N/A	Flow Cytometry	Navios Flow Cytometer	%	N/A	N/A	N/A	N/A	0.0-100.0%
CD8 CD8+/CD127+	N/A	Flow Cytometry	Navios Flow Cytometer	% e/ / ADC	N/A 6.7-24.6%	N/A	N/A	N/A	0.0-100.0%
CD8+/CD127+	N/A	Flow Cytometry	Navios Flow Cytometer	% / ABS	55-624 ABS/mm ³ 6.3-24.3%	N/A	OSU Flow Lab established	N/A	0.0-100.0%
CD8+/CD127+/CD25-	N/A	Flow Cytometry	Navios Flow Cytometer	% / ABS	50-616 ABS/mm ³	N/A	OSU Flow Lab established	N/A	0.0-100.0%
CD8+/CD25+	N/A	Flow Cytometry	Navios Flow Cytometer	% / ABS	0.0-0.1%	N/A	OSU Flow Lab established	N/A	0.0-100.0%
CD8+/CD25+/CD127-	N/A	n	Navios Flow Cytometer	% / ABS	0-1 ABS/mm ³ 0.0-0.0%	N/A	OSU Flow Lab established	N/A	0.0-100.0%
	N/A	Flow Cytometry	Navios Flow Cytometer	% / ABS	0-0 ABS/mm ³	N/A	OSU Flow Lab established	N/A	0.0-100.0%
CD8+/CD27+/CD45RA- /CD45RO-	N/A	Flow Cytometry	Navios Flow Cytometer	% / ABS	0.0-0.1% 0-1 ABS/mm ³	N/A	OSU Flow Lab established	N/A	0.0-100.0%
CD8+/CD29+/CD45RA-	N/A	Flow Cytometry	Navios Flow Cytometer	% / ABS	0.0-0.1%	N/A	OSU Flow Lab established	N/A	0.0-100.0%
/CD45RO-					0-2 ABS/mm ² 11.0-40.0%				
CD8+/CD3+	T Suppressor	Flow Cytometry	Navios Flow Cytometer	96	91-1428 ABS/mm ³	N/A	N/A	N/A	0.0-100.0%
CD8+/CD3+	T Suppressor	Flow Cytometry	Navios Flow Cytometer	76	N/A 11.0-40.0%	N/A	N/A	N/A	0.0-100.0%
CD8+/CD3+	T Suppressor	Flow Cytometry	Navios Flow Cytometer	%/absolutes	91-1428 ABS/mm ³ 8.9-32.5%	N/A	OSU Flow Lab established	N/A	0.0-100.0%
CD8+/CD45RA+	N/A	Flow Cytometry	Navios Flow Cytometer	%/ ABS	64-836 ABS/mm ³	N/A	OSU Flow Lab established	N/A	0.0-100.0%
CD8+/CD45RA+/CD27-	N/A	Flow Cytometry	Navios Flow Cytometer	%/ABS	0.0-15.0%	N/A	OSU Flow Lab established	N/A	0.0-100.0%
					0-341 ABS/mm ³ 0.8-18.3%				
CD8+/CD45RA+/CD27+	N/A	Flow Cytometry	Navios Flow Cytometer	%/ABS	0-426 ABS/mm ³ 0.0-14.2%	N/A	OSU Flow Lab established	N/A	0.0-100.0%
CD8+/CD45RA+/CD29-	N/A	Flow Cytometry	Navios Flow Cytometer	%/ ABS	0.0-14.2% 0-331 ABS/mm ³	N/A	OSU Flow Lab established	N/A	0.0-100.0%
CD8+/CD45RA+/CD29+	N/A	Flow Cytometry	Navios Flow Cytometer	%/ ABS	2.6-18.1% 30-408 ABS/mm ³	N/A	OSU Flow Lab established	N/A	0.0-100.0%
					30-408 ABS/mm ³ 2.0-22.8%				
CD8+/CD45RO+	N/A	Flow Cytometry	Navios Flow Cytometer	%/ABS	0-545 ABS/mm ³	N/A	OSU Flow Lab established	N/A	0.0-100.0%
CD8+/CD45RO+/CD27-	N/A	Flow Cytometry	Navios Flow Cytometer	%/ABS	0.0-4.7% 0-122 ABS/mm ³	N/A	OSU Flow Lab established	N/A	0.0-100.0%
CD8+/CD45RO+/CD27+	N/A	Flow Cytometry	Navios Flow Cytometer	%/ABS	0.0-12.9%	N/A	OSU Flow Lab established	N/A	0.0-100.0%
CD8+/CD45RO+/CD29-	N/A	Flow Cytometry	Navios Flow Cytometer	%/ ABS	0-291 ABS/mm ³ 0.0-2.6%	N/A	OSU Flow Lab established	N/A	0.0-100.0%
					0-56 ABS/mm ³ 0.0-14.4%				
CD8+/CD45RO+/CD29+	N/A	Flow Cytometry	Navios Flow Cytometer	%/ABS	0-343 ABS/mm ³	N/A	OSU Flow Lab established	N/A	0.0-100.0%
CD80 CD86	N/A N/A	Flow Cytometry Flow Cytometry	Navios Flow Cytometer Navios Flow Cytometer	96 96	N/A N/A	N/A N/A	N/A N/A	N/A N/A	0.0-100.0% 0.0-100.0%
CD9	N/A	Flow Cytometry	Navios Flow Cytometer	% %	N/A	N/A	N/A	N/A	0.0-100.0%
cMPO SARS-COV-2 Nucleocapsid (N)	N/A SARS-CoV-2,	Flow Cytometry	Navios Flow Cytometer Epitope Diagnostic (KIT)	% Detected /	N/A	N/A	N/A	N/A	0.0-100.0% Detected /
SARS-COV-2 Nucleocapsid (N) Protein Antibody	anna-Cov-z,				Not Detected		N/A	N/A	Not Detected
	COVID-19 IgG (N)	ELISA	DSX	Not Detected		N/A			
FMC7	N/A	Flow Cytometry	DSX (Plate Reader) Navios Flow Cytometer	Not Detected	N/A N/A	N/A	N/A	N/A N/A	0.0-100.0%
Gamma/Delta			DSX (Plate Reader)		N/A N/A N/A			N/A N/A N/A	0.0-100.0% 0.0-100.0% 0.0-100.0%
Gamma/Delta HLA-DR Kappa	N/A N/A N/A N/A	Flow Cytometry Flow Cytometry Flow Cytometry Flow Cytometry	DSX (Plate Reader) Navios Flow Cytometer Navios Flow Cytometer Navios Flow Cytometer Navios Flow Cytometer		N/A N/A N/A	N/A N/A N/A N/A	N/A N/A N/A N/A	N/A N/A N/A	0.0-100.0% 0.0-100.0% 0.0-100.0%
Gamma/Delta HLA-DR Kanna Ki-67 Lambda	N/A N/A N/A N/A N/A N/A	Flow Cytometry Flow Cytometry Flow Cytometry Flow Cytometry Flow Cytometry Flow Cytometry Flow Cytometry	DSX (Plate Reader) Navios Flow Cvtometer Navios Flow Cvtometer Navios Flow Cvtometer Navios Flow Cvtometer Navios Flow Cvtometer Navios Flow Cvtometer Navios Flow Cvtometer	96 96 96 97 / ratio 96 97 / ratio	N/A N/A N/A N/A N/A	N/A N/A N/A N/A N/A N/A	N/A N/A N/A N/A N/A N/A	N/A N/A N/A N/A N/A	0.0-100.0% 0.0-100.0% 0.0-100.0% 0.0-100.0% 0.0-100.0%
Gamma/Delta HLA-DR Kanna Ki-67 Lambda nTdT Vb1	N/A N/A N/A N/A N/A N/A N/A N/A N/A TCR VbETA	Flow Cytometry Flow Cytometry Flow Cytometry Flow Cytometry Flow Cytometry Flow Cytometry Flow Cytometry Flow Cytometry Flow Cytometry	DSX (Plate Reader) Navios Flow Cytometer Navios Flow Cytometer Navios Flow Cytometer Navios Flow Cytometer Navios Flow Cytometer Navios Flow Cytometer Navios Flow Cytometer Navios Flow Cytometer Navios Flow Cytometer Navios Flow Cytometer	% % % % % / ratio %	N/A N/A N/A N/A N/A N/A 1.89-11.70%	N/A N/A N/A N/A N/A N/A N/A N/A	N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A	N/A N/A N/A N/A N/A N/A N/A N/A	0.0-100.0% 0.0-100.0% 0.0-100.0% 0.0-100.0% 0.0-100.0% 0.0-100.0% 0.0-100.0%
Gamma/Delta III.A-DR Kanna Ki-67 Lambda nTdT Vb1 Vb1	N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A	Flow Cytometry Flow Cytometry Flow Cytometry Flow Cytometry Flow Cytometry Flow Cytometry Flow Cytometry Flow Cytometry Flow Cytometry Flow Cytometry Flow Cytometry Flow Cytometry	DSX (Plate Reader) Navios Flow Cvtonneter Navios Flow Cvtonneter Navios Flow Cvtonneter Navios Flow Cvtonneter Navios Flow Cvtonneter Navios Flow Cvtonneter Navios Flow Cvtonneter Navios Flow Cvtonneter Navios Flow Cvtonneter Navios Flow Cvtonneter Navios Flow Cvtonneter Navios Flow Cvtonneter Navios Flow Cvtonneter	96 96 96 96 / ratio 96 76 / ratio 96 96 96	N/A N/A N/A N/A N/A N/A N/A 1.89-11.70% 0.25-5.11%	N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A	N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A	N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A	0.0-100.0% 0.0-100.0% 0.0-100.0% 0.0-100.0% 0.0-100.0% 0.0-100.0% 0.0-100.0% 0.00-100.0%
Gamma/Delta HLA-DR Kanna Ki-67 Lambda nTdT Vb1 Vb11 Vb12 Vb13.1	N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A	Flow Cytometry Flow Cytometry Flow Cytometry Flow Cytometry Flow Cytometry Flow Cytometry Flow Cytometry Flow Cytometry Flow Cytometry Flow Cytometry Flow Cytometry Flow Cytometry Flow Cytometry Flow Cytometry Flow Cytometry	DSX (Plate Reader) Navios Flow Cytometer Navios Flow Cytometer Navios Flow Cytometer Navios Flow Cytometer Navios Flow Cytometer Navios Flow Cytometer Navios Flow Cytometer Navios Flow Cytometer Navios Flow Cytometer Navios Flow Cytometer Navios Flow Cytometer Navios Flow Cytometer Navios Flow Cytometer Navios Flow Cytometer Navios Flow Cytometer Navios Flow Cytometer Navios Flow Cytometer	96 95 95 95 / ratio 55 / ratio 95 95 / ratio 95 95 96 95	N/A N/A N/A N/A N/A N/A N/A N/A 1.89-11.70% 0.25-5.11% 1.00-4.70% 1.62-8.16%	N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A	N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A	N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A	0.0-100.0% 0.0-100.0% 0.0-100.0% 0.0-100.0% 0.0-100.0% 0.0-100.0% 0.0-100.0% 0.00-100.0% 0.00-100.0% 0.00-100.0% 0.00-100.0%
Gamma/Delta III.A-DR Kanna Ki-67 Lambda nTdT Vb1 Vb11 Vb12 Vb13.1 Vb13.2 Vb13.6	N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A	Flow Cytometry Flow Cytometry	DSX (Plate Reader) Navios Flow Cytometer	95 95 95 95 74 ratio 95 ratio 95 ratio 95 95 95 95 95 96	N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A	N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A	N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A	N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A	0.0-100.0% 0.0-100.0% 0.0-100.0% 0.0-100.0% 0.0-100.0% 0.0-100.0% 0.0-100.0% 0.0-100.0% 0.00-100.0% 0.00-100.0% 0.00-100.0% 0.00-100.0% 0.00-100.0% 0.00-100.0%
Gamma/Delta HIA-DR Kanna Ki-67 Lambda n1dT Vb11 Vb12 Vb13,1 Vb13,2 Vb13,6 Vb14	N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A	Flow Cytometry Flow Cytometry	DEX (Plate Reader) Navios Flow Cvtometer N	% % % % % % % % % % % % % % % % % % %	N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A	N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A	N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A	N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A	0.0-100.0% 0.0-100.0% 0.0-100.0% 0.0-100.0% 0.0-100.0% 0.0-100.0% 0.0-100.0% 0.0-100.0% 0.0-100.0% 0.0-100.0% 0.0-100.0% 0.0-100.00%
Gamma/Delta HIA-DIR Kanna Ki-67 Lambda 10TT Vb1 Vb11 Vb12 Vb12 Vb13.3 Vb13.6 Vb16 Vb16 Vb17	N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A	Flow Cytometry Flow C	DSX Plate Render) Plate Render) Plate Render) Plate Render) Navios Flow Cvioneter Navios	% % % % % % % % % % % % % % % % % % %	N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A	N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A	N/A N/A N/A N/A N/A N/A N/A N/A	N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A	0.0-100.095 0.0-100.095 0.0-100.095 0.0-100.095 0.0-100.095 0.0-100.095 0.0-100.095 0.0-100.095 0.0-100.095 0.0-100.095 0.0-100.095 0.0-100.095 0.0-100.095 0.0-100.095 0.0-100.095 0.0-100.095 0.0-100.095
Gamma/Delta HIA-DR Kanna Ki-DR	N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A	Plan Cotonetry Plan C	PSN PSN PSN PSN PSN PSN PSN PSN PSN PSN	% % % % % % % % % % % % % % % % % % %	N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A	N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A	N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A	N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A	0.0-100 0% 0.0-100 0%
Gamma/Delta HLA-DR Kanna Kanna Ki-67 Lambda attl Vb11 Vb11 Vb12 Vb13.1 Vb13.4 Vb16 Vb16 Vb16 Vb16 Vb17 Vb18 Vb18 Vb18 Vb18 Vb18 Vb18	N.A. NIA NIA NIA NIA NIA NIA NIA NIA NIA NIA	Floar Cotometry Floar Cotometr	DSX BY Street White a Processor of the Control of the Control of Street Nation Flor Cytometer Nation Flor Cytom	\$\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A	N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A	N/A N/A N/A N/A N/A N/A N/A N/A	N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A	0.0-160 0% 0.0-160 0%
Gamma/Delta HIA.DR Komma Komma Lambda 1. Lambd	N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A	Boar Cotometry How Cotometry Plane Cotometry P	DSX PSS and Render) When the Render) Nession Revented Renders Nession Rose Cytometer Nession Flow Cytometer	55 55 57 / ratio 45 / ratio 45 / ratio 57 / ratio 59 / ratio 50 /	N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A	N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A	N/A N/A N/A N/A N/A N/A N/A N/A	N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A	0.0-100 0% 0.0-100 0%
Gamma/Delts HIL-DR Kamma Nation Natio	N.A. N.A. N.A. N.A. N.A. N.A. N.A. N.A.	Flow Cotonetry Flow C	DSN The Rendering Control of the Rendering Control of States Flow Cottoneter Nation Flow Flow Flow Flow Flow Flow Flow Flow	5; 5; 5; 5; 7/ratio 5, 7/ratio 6,	N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A	N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A	N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A	N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A	0.0-100 OPs 0.0-100 OPs
GammarDelat HIA.DR Kanna Kanna Kanna Lambda a Tdf Vhl Vhl Vhl Vhl Vhl Vhl Vhl Vhl Vhl Vhl	N.A. NIA NIA NIA NIA NIA NIA NIA NIA NIA NIA	How Cotometry Jose Cotometry How How How How How How How How How How	DSX DSX DSX DSX DSX DSX DSX DSX DSX DSX DSX	55 56 57 57 58 58 59 59 59 59 59 59 59 59 59 59 59 59 59	N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A	N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A	N/A N/A N/A N/A N/A N/A N/A N/A	NYA NYA NYA NYA NYA NYA NYA NYA NYA NYA	0.0-100 0% 0.0-100 0% 0.0-100 0% 0.0-100 0% 0.0-100 0% 0.0-100 0% 0.0-100 0% 0.0-100 0% 0.0-100 0% 0.0-100 0% 0.0-100 0% 0.0-100 0% 0.0-100 0% 0.0-100 0% 0.0-100 0% 0.0-100 0% 0.0-100 0% 0.0-100 0% 0.0-100 0% 0.0-100 0%
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Gamma/Delta HIA-DE Kaman Kaman HIA-DE Kaman HIA-DE Kaman HIA-DE H	NYA NYA NYA NYA NYA NYA NYA NYA NYA NYA	Pass Cotonetry Hen Cotonetry Plan Co	DSX PSX development of the property of the pro	5; 5; 5; 6; 7/ratio 5/ratio 5/ratio 6, 7/ratio 6, 7/rat	N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A	N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A	N/A N/A N/A N/A N/A N/A N/A N/A	NYA NYA NYA NYA NYA NYA NYA NYA NYA NYA	0.0-100 07% 0.0-100 07%