

ANALYTE	LOW LIMIT	HIGH LIMIT
BLOOD GASES		
Base Deficit, Cord Blood, Arterial	-	-
Calcium, Ionized, Whole Blood	<0.75 mmol/L	>1.63 mmol/L
Calcium, Ionized, Serum (Out-patient only)	-	-
Carboxyhemoglobin	-	>20.0 %
CO2 content	-	-
pO2	≤40 mmHg	-
pCO2	<20 mmHg	-
pH	<7.20	>7.6
pH, Cord Blood, Arterial	<7.00	-
TCO2	<10 mmol/L	>40 mmol/L
CHEMISTRY		
Ammonia	-	>100 μ mol/L
Bilirubin, Total	-	>15 mg/dL
Calcium	<6.0 mg/dL	>13.0 mg/dL
Creatinine	-	-
CSF Glucose	-	-
Glucose	<40 mg/dL	>500 mg/dL
Lactate	-	≥4.0 mmol/L
Magnesium	<1.0 mg/dL	>6.1 mg/dL
Osmolality, serum	-	-
Phosphorus	≤1.0 mg/dL	-
Potassium	<2.5 mmol/L	>6.0 mmol/L
Sodium	<120 mmol/L	≥160 mmol/L
Troponin (hs-TnI)	-	Males >200 ng/L Females >120 ng/L
Urea Nitrogen	-	-
Uric Acid	-	-
URINALYSIS		
Sperm	Sperm if present in urine of females <18 years and ALL female nursing home residents	
HEMATOLOGY		
Differential (WBC)	<ul style="list-style-type: none"> Presence of ≥3.0 immature (blast) cells (1st time only) Hematopathologist review pt follow Microorganisms (Intracellular or Extracellular) present on peripheral blood smear 	
Hemoglobin	Age 0-3 days: <12.0 g/dL Age 4-60 days: <9.0 g/dL Age >60 days: <7.0 g/dL	Age 0-3 days: >22.0 g/dL Age 4-60 days: >20.0 g/dL Age >60 days: >21.0 g/dL
Platelets	<20 thousand/μL	>1,000 thousand/μL (10 ⁹ /L)
WBC	-	≥50 thousand/μL (10 ⁹ /L)
Absolute Neutrophil Count (ANC)	<0.5 thousand/μL (10 ⁹ /L)	-

COAGULATION		
Fibrinogen	<60 mg/dL	-
Heparin Level (Unfractionated)	-	>0.7 units/mL
INR	-	> 4.9
PTT	-	≥ 95.0 seconds* * range varies with reagent lot
TOXICOLOGY		
Acetaminophen	-	>150 µg/mL
Amikacin, Trough	-	>10 µg/mL
Carbamazepine	-	Free: >4.0 µg/mL Total: >20µg/mL
Digoxin	-	>2.5 ng/mL
Gentamicin	-	Peak: >12.0 µg/mL Trough: >2.0 µg/mL
Lithium	-	≥1.5 mmol/L
Phenobarbital	-	>60.0 µg/mL
Phenytoin	-	Free: >3.0 µg/mL Total: ≥40.0 mg/L
Salicylate	-	>40.0 mg/dL
Theophylline	-	>25.0 µg/mL
Tobramycin	-	Peak: >12.0 µg/mL Trough: >2.0 µg/mL
Valproic Acid	-	Free: - Total: >125 µg/mL
Vancomycin	-	Peak: >80.0 µg/mL Trough: >40 µg/mL Random: -

TEST	CALL
MICROBIOLOGY	
AFB, Mycobacteria, TB Culture	Positive smears, cultures, and TB PCR
Blood Culture	Positive Gram stains and/or Positive Nucleic Acid Amplification (NAA)
Bordetella pertussis, PCR	B. pertussis detected
Cerebral Spinal Fluid	Any positive result (Gram stain, Culture, PCR, Antigen)
Eye Culture (Corneal Scrapings and Vitreous Fluid)	Any positive culture
Mycology Culture	Blastomyces dermatitidis, Histoplasma capsulatum, Paracoccidioides brasiliensis, Coccidioides immitis, Penicillium marneffeii and Sporothrix schenckii
Susceptibilities	Carbapenemase producing Enterobacteriaceae (CPOs), Extended Spectrum Beta-Lacamasases (ESBLs) from sterile sites (pleural fluid, pericardial fluid, bone culture, blood culture, bone marrow culture)
Synovial Fluid Culture	Positive Gram stains and positive cultures
Wound/ Fluid Cultures	Beta Streptococci Group A isolates in sterile sites only
Any Culture	Recovery of C. auris or any potential biothreat organism