

TEST	REFERENCE OR THERAPEUTIC VALUES	CRITICAL LIMITS
ALCOHOL (ETHANOL)		>350 mg/dL
APTT	24.1 - 35.1 sec (w/o anticoagulants)	<20 or >100 sec
BILIRUBIN (NEONATE 0-28 days)	See age specific reference ranges.	>15 mg/dL
BLOOD CULTURES	NEGATIVE	POSITIVE FOR GROWTH
CALCIUM	8.6 - 10.2 mg/dL	<6.0 or >13 mg/dL
CARBAMAZEPINE	4.0 - 12.0 µg/mL	>15 µg/mL
CARBON DIOXIDE (CO ₂)	22-29 mmol/L	<10 or >40 mmol/L
CSF and JOINT FLUID GRAM STAIN and CULTURES	NO ORGANISMS SEEN	POSITIVE CSF or JOINT FLUID GRAM STAINS or CULTURES.
DIGOXIN	0.8 - 2.0 ng/mL	≥ 2.5 ng/mL
DILANTIN (Phenytoin)	10 - 20 µg/mL	≥ 30 ug/mL
FIBRINOGEN	207 - 465 mg/dL	< 100 mg/dL
GLUCOSE	74 - 109 mg/dL	Newborn: (0 to 2 days old): <35 or >200 mg/dL Pediatric: (3days old to <18 yrs): <50 or >200 mg/dL Adult: <50 or >500 mg/gL
Urine Glucose:		Positive Glucose AND positive Ketones
HEMATOCRIT (FEMALE)	37 – 47 %	<18 or >55 %
HEMATOCRIT (MALE)	42 – 52 %	<18 or >55 %
HEMATOCRIT (0 – 28 days)	31 – 55 %	<18 or >60 %
HEMOGLOBIN (FEMALE)	12 - 16 g/dL	<6.0 or >23.0 g/dL
HEMOGLOBIN (MALE)	14 - 18 g/dL	<6.0 or >23.0 g/dL
HEMOGLOBIN (0 – 28 days)	14.5 - 22.5 g/dL	<8.0 or > 23.0 g/dL
LACTIC ACID (LACTATE)	0.5 - 2.2 mmol/L	> 2.2 mmol/L (> 2.0 will be called)
INDIA INK	NEGATIVE	POSITIVE
LITHIUM	0.6 - 1.2 mmol/L	>1.5 mmol/L
MAGNESIUM	1.6 - 2.6 mg/dL	<1.0 or >5.0 mg/dL
MALARIA SMEARS	NO PARASITES SEEN	POSITIVE FOR MALARIA PARASITES
PHOSPHORUS	2.5 - 4.5 mg/dL	<1.0 or >8.0 mg/dL
PLATELET COUNT	150,000 - 400,000 K/µL	<30,000 or >1,000,000 K/µL
PROTIME (INR)	12.1-13.9 sec (w/o anticoagulants)	INR ≥ 5.0 sec
POTASSIUM BLOOD	3.5 - 5.1 mmol/L	< 3.0 or >6.0 mmol/L
SALICYLATE	3 - 10 mg/dL	>45 mg/dL
SODIUM BLOOD	136 - 145 mmol/L	<120 or >160 mmol/L
TROPONIN T	Female: < 14 ng/L Male: < 22 ng/L	Female: >34 ng/L Male: >54 ng/L
TYLENOL (Acetaminophen)	10 - 30 µg/mL	>50 µg/mL
VALPROIC ACID	50 - 100 µg/mL	>150 µg/mL
VANCOMYCIN (TROUGH)	5 - 10 µg/mL	>25 µg/mL
VANCOMYCIN (PEAK)	20-40 µg/mL	>50 µg/mL
WHITE BLOOD CELL COUNT	4.8 - 10.8 K/µL	<2.0 or >30.0 K/µL
WBC (NEWBORN; 0-28 days)	9.0 - 30.0 K/µL	<8.0 or >35.0 K/µL
WBC DIFFERENTIAL	See individual ranges.	BLASTS or ABNORMAL FINDINGS requiring Pathologist Review