

**Brown University Health Laboratories**  
**CLINICAL PATHOLOGY ADULT NORMAL RANGES**

**Hematology Routine**

Effective (8/1/23)

White Blood Cells (WBC)	4.2 – 10 x 10 <sup>9</sup> /L	
Red Blood Cells (RBC)	Female: 3.8 – 5.1 x 10 <sup>12</sup> /L	Male: 4.5 - 5.6 x 10 <sup>12</sup> /L
Hemoglobin (HGB)	Female: 11.2 – 14.9 g/dL	Male: 13.4 - 16 g/dL
Hematocrit (HCT)	Female: 36 – 48%	Male: 41.2 – 50.6%
MCV	85.2 – 100.2 fL	
MCH	27– 32.4 pg	
MCHC	29.5 – 34.2 g/dL	
Platelets (PLT)	167.9 – 382 x 10 <sup>9</sup> /L	
RDW-CV	11.8 - 14.4%	
MPV	9.6 - 12.5 fL	
Absolute Neutrophil Count (NEUT)	1.9 - 6.7 x 10 <sup>9</sup> /L	
Absolute Lymphocyte Count (LYMPH)	1 – 3.3 x 10 <sup>9</sup> /L	
Absolute Monocyte Count (MONO)	0.3 - 0.9 x 10 <sup>9</sup> /L	
Absolute Eosinophil Count (EO)	0.0 - 0.4 x 10 <sup>9</sup> /L	
Absolute Basophil Count (BASO)	0.0 - 0.1 x 10 <sup>9</sup> /L	
Immature Granulocytes (IG)	0.0 - 0.1 x 10 <sup>9</sup> /L	

**Coagulation Routine (RI labs only)**

PT	10.0 - 13.0 SEC
INR	0.8 - 1.2
APTT	24 - 37 SEC
Fibrinogen	150-480 mg/dL

**Urinalysis**

Specific Gravity	1.010 - 1.030
pH	5.0 - 8.0
Leukocyte Esterase	Negative
Nitrite	Negative
Protein	Negative
Glucose	Negative
Ketones	Negative
Urobilinogen	Negative
Bilirubin	Negative
Blood	Negative

**Chemistry Routine**

Procedure	Range
Glucose	67 - 99 mg/dL
BUN	6 - 24 mg/dL
Creatinine	F 0.44 - 1.03 mg/dL
	M 0.64 - 1.27 mg/dL
Sodium	135 - 145 mEq/L
Potassium	3.6 - 5.1 mEq/L
Chloride	98 - 110 mEq/L
CO2	20 - 29 mEq/L
Anion Gap	3 - 13 mEq/L
Albumin	3.4 - 5.1 g/dL
Alkaline Phos.	39 - 117 IU/L
ALT	7 - 49 IU/L
Ammonia	1 - 39 Umol/L
Amylase	38 - 136 U/L
AST	12 - 52 IU/L
Bilirubin Direct	0.0 - 0.4 mg/dL
Bilirubin Total	0.1 - 1.2 mg/dL
Calcium	8.4 - 10.2 mg/dL
CK	M : 22 - 247 IU/L
	F : 22 - 194 IU/L
CSF Glucose	42 - 91 mg/dL
CSF Protein	13 - 43 mg/dL
GGTP	10 - 28 IU/L
Iron	M : 49 - 181 ug/dL
	F : 37 - 170 ug/dL
Lactic Acid	0.2-1.9 mEq/L
LDH	119 - 265 IU/L
Lipase	13 - 55 U/L
Lithium	0.5 - 1.2 mEq/L
Magnesium	1.6 - 2.3 mg/dL
Phosphorus	2.4 - 4.8 mg/dL
TIBC	250 - 450 ug/dL
Total Protein	6.1 - 8.3 g/dL
Uric Acid	M : 3.7 - 8.9 mg/dL
	F : 2.7 - 6.3 mg/dL
Total T4	4.5 - 10.9 ug/dL
Total T3	66 - 165 ng/dL
TSH 3rd Gen	0.330 - 4.120 uIU/mL