

[Equine](#)[Porcine](#)[Feline](#)[Canine](#)[Bovine](#)[Ovine](#)[Caprine](#)**Hematology**

	Traditional Unit	Absolute Number (cells per uL)	SI Units
Red Blood Cells (Erythrocytes)	5-8x10 ⁶ /uL	5,000,000-8,000,000	5-8x10 ¹² /L
White Blood Cells (Leukocytes)	7-17x10 ³ /uL	7,000-17,000	7-17x10 ⁹ /L
Band Neutrophils	0%-2%	0-340	0-0.02
Segmented Neutrophils	55%-71%	4950-12,000	0.55-0.71
Lymphocytes	20%-36%	1400-3500	0.20-0.36
Monocytes	0%-6%	0-900	0-0.06
Eosinophils	2%-9%	0-1400	0.02-0.09
Basophils	0%-1%	0-175	0-0.01
Thrombocytes (Platelets)	2-9x10 ⁵ /uL	200,000-900,000	200-900x10 ⁹ /L
Reticulocytes (Total %)	0%-1.5%		
Hemoglobin	12-18 g/dL		120-180 g/L
Hematocrit (Packed Cell Volume)	36%-50%		0.36-0.50
Mean Corpuscular Volume (MCV)	60-79 um ³		60-79 fL
Mean Corpuscular Hemoglobin (MCH)	18-24 pg		1.17-1.45 fmol
Mean Corpuscular Hemoglobin Concentration (MCHC)	30-35		300-350 g/L
Prothrombin Time	6-10 sec		
Partial Thromboplastin Time	7-14 sec		
Thrombin Time	5-9 sec		
Fibrinogen Time	240-410 mg/dL		2.4-4.1 g/L
Plasma Proteins	5.8-7.8 g/dL		58-78 g/L

Serum Chemistry

	Traditional Unit	Absolute Number (cells per uL)	SI Units
Calcium (Ca)	8-11mg/dL		2.0-2.9 mmol/L
Phosphorus (P)	2.4-4.9 mg/dL		0.7-2.0 mmol/L
Magnesium (Mg)	1.8-2.5 mg/dL		0.6-1.0 mmol/L
Total Bilirubin	0.06-0.61 mg/dL		1.1-10.5 umol/L
Direct (Conjugated) Bilirubin	0-0.15 mg/dL		0-2.5 umol/L
Total Protein	5.5-7.3 g/dL		55-73 g/L
Albumin	2.2-4.2 g/dL		22-42 g/L
Globulin	2.6-4.5 g/dL		26-45 g/L
Creatine Kinase (CK; CPK)	10-90 IU/L		10-90 U/L
Alkaline Phosphatase (AP)	10-80 IU/L		10-80 U/L
Aspartate Aminotransferase (AST, GOT)	0-20 IU/L		0-20 U/L
Alanine Aminotransferase (ALT; GPT)	3-33 IU/L		3-33 U/L
Lactate Dehydrogenase (LDH)	7-90 IU/L		7-90 U/L
Gamma-Glutamyl Transferase (GGT)	1.3-12.0 IU/L		1.3-12.0 U/L
Sorbitol Dehydrogenase (SDH; IDH)	2.9-8.3 IU/L		2.9-8.3 U/L
Blood Urea Nitrogen (BUN)	10-22 mg/dL		3.6-7.3 mmol/L
Creatinine	0.5-2.2 mg/dL		50-180 umol/L
Glucose	60-125 mg/dL		3.3-6.7 mmol/L
Sodium (Na)	137-155 mEq/L		137-155 mmol/L
Potassium (K)	3.4-5.5 mEq/L		3.4-5.5 mmol/L
Chloride (Cl)	100-115 mEq/L		100-115 mmol/L
Total CO2	16-24mEq/L		16-24mmol/L
Tri-iodothyronine (T3) (Radioimmunoassay)	45-155 ng/dL		0.7-2.5 nmol/L
Thyroxine (T4) (Radioimmunoassay)	1.4-3.6 ug/dL		19.0-46.5 nmol/L
Insulin (Radioimmunoassay)	10-30 uU/mL		71.5-215.5 pmol/L

Amylase	175-700 IU/L	175-700 U/L
Lipase	11-210 IU/L	11-210 U/L
Cholesterol	125-250 mg/dL	3.1-6.5 mmol/L

Adrenocorticotrophic Hormone (ACTH) Stimulation	Traditional Unit	Absolute Number (cells per uL)	SI Units
Cortisol (pre-test)	1.8-4.0 ug/dL		49.5-110.7 nmol/L
Cortisol (2 hour post-test)	5.3-16.0 ug/dL		149-445 nmol/L

Urinalysis	Traditional Unit	Absolute Number (cells per uL)	SI Units
Color	Light Yellow		
Turbidity	Clear		
Specific Gravity	1.001-1.050		
Bilirubin	Negative-Trace		
Glucose	Negative		
Ketones	Negative		
Blood	Negative		
pH	5.0-7.0		
Protein	Negative		
Hemoglobin	Negative		
Urobilinogen	Negative		

Cerebral Spinal Fluid	Traditional Unit	Absolute Number (cells per uL)	SI Units
Protein	11-30 mg/dL		110-300 mg/L
Cell Count	< 26/uL		< 26x10 ⁶ /L
Glucose	55-120 mg/dL		3.2-6.5 mmol/L
Pressure	<165 mmH ₂ O		<1.64 kPa
Color	Colorless		
Turbidity	Clear		

Physical Values	Traditional Unit	Absolute Number (cells per uL)	SI Units
Temperature	100.0F-102.6F		37.8C-39.3C
Heart Rate Adult (non toy)	60-160 beats/min		
Heart Rate Adult (toy)	Up to 180 beats/min		
Heart Rate Puppy	225 beats/min		
Respiratory Rate	10-30 breaths/min		