

**Laboratory Units Conversion Table**

Test	Conventional Units	Conversion Factor	SI Units	Reference Range (Conventional Units)	Reference Range (SI Units)
<b>Adrenocorticotrophic hormone (ACTH)</b>	pg/mL	0.22	pmol/L	<120	<26
<b>Alanine aminotransferase (ALT)</b>	U/L	0.0167	μkat/L	10-40	0.17-0.68
<b>Albumin</b>	g/dL	10	g/L	3.5-5.0	35-50
<b>Alkaline phosphatase</b>	U/L	0.0167	μkat/L	30-120	0.5-2.0
<b>Amylase</b>	U/L	0.0167	μkat/L	27-131	0.46-2.23
<b>Aspartate aminotransferase (AST)</b>	U/L	0.0167	μkat/L	10-30	0.17-0.51
<b>Bilirubin, total</b>	mg/dL	17.104	μmol/L	0.3-1.2	5.0-21.0
<b>Blood gases</b>					
<b>Carbon dioxide, Pco<sub>2</sub></b>	mm Hg	0.133	kPa	35-45	4.7-5.9
<b>pH</b>		1		7.35-7.45	7.35-7.45
<b>Oxygen, Po<sub>2</sub></b>	mm Hg	0.133	kPa	80-100	11-13
<b>Calcitonin</b>	pg/mL	0.292	pmol/L	3-26	0.8-7.6
<b>Calcium, ionized</b>	mg/dL	0.25	mmol/L	4.60-5.08	1.15-1.27
<b>Calcium, total</b>	mg/dL	0.25	mmol/L	8.2-10.2	2.05-2.55
<b>Carbon dioxide (total)</b>	mEq/L	1	mmol/L	22-28	22-28
<b>Chloride</b>	mEq/L	1	mmol/L	96-106	96-106
<b>Cholesterol, high-density (HDL) (low level)</b>	mg/dL	0.0259	mmol/L	<40	<1.03
<b>Cholesterol, low-density (LDL) (high level)</b>	mg/dL	0.0259	mmol/L	>160	4.144
<b>Cortisol</b>	μg/dL	27.588	nmol/L	5-25	140-690
<b>Creatine kinase (CK)</b>	U/L	0.0167	μkat/L	40-150	0.67-2.5
<b>Creatinine</b>	mg/dL	88.4	μmol/L	0.6-1.2	53-106
<b>Creatinine clearance</b>	mL/min/1.73 m <sup>2</sup>	0.0167	mL/s/m <sup>2</sup>	75-125	1.24-2.08
<b>D-dimer</b>	μg/mL	5.476	nmol/L	<0.5	<3.0
<b>Ethanol (ethyl alcohol)</b>	mg/dL	0.2171	mmol/L	<20	<4.3
<b>Ferritin</b>	ng/mL	2.247	pmol/Lng/mL	15-200	33-450
<b>Glucose</b>	mg/dL	0.0555	mmol/L	70-110	3.9-6.1
<b>γ-Glutamyltransferase (GGT)</b>	U/L	0.0167	μkat/L	2-30	0.03-0.51
<b>Hematocrit</b>	%	0.01	Proportion of 1.0	41-50	0.41-0.50
<b>Hemoglobin</b>	g/dL	10	g/L	14.0-17.5	140-175
<b>Hemoglobin A<sub>1c</sub> (glycated hemoglobin)</b>	% of total hemoglobin	0.01	Proportion of total hemoglobin	4-7	0.04-0.07
<b>Iron</b>	μg/dL	0.179	μmol/L	60-150	10.7-26.9
<b>Lactate</b>	mg/dL	0.111	mmol/L	5.0-15	0.6-1.7
<b>Lactate dehydrogenase (LDH)</b>	U/L	0.0167	μkat/L	100-200	1.7-3.4

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<b>Lipase</b>	U/L	0.0167	μkat/L	31-186	0.5-3.2
<b>Magnesium</b>	mEq/L	0.5	mmol/L	1.3-2.1	0.65-1.05
<b>Parathyroid hormone</b>	pg/mL	1	ng/L	10-65	10-65
<b>Phosphorus (inorganic)</b>	mg/dL	0.323	mmol/L	2.3-4.7	0.74-1.52
<b>Potassium</b>	mEq/L	1	mmol/L	3.5-5.0	3.5-5.0
<b>Prolactin</b>	μg/L	43.478	pmol/L	3.8-23.2	165-1010
<b>Protein (total)</b>	g/dL	10	g/L	6.0-8.0	60-80
<b>Prothrombin time (PT)</b>	s	1	s	10-13	10-13
<b>Sodium</b>	mEq/L	1	mmol/L	136-142	136-142
<b>Thrombin time</b>	s	1	s	16-24	16.24
<b>Thyroglobulin</b>	ng/mL	1	μg/L	3-42	3-42
<b>Thyrotropin</b>	mIU/L	1	mIU/L	0.4-4.2	0.4-4.2
<b>Thyroxine, free (FT<sub>4</sub>)</b>	ng/dL	12.871	pmol/L	0.9-2.3	12-30
<b>Thyroxine, total (T<sub>4</sub>)</b>	μg/dL	12.871	nmol/L	5.5-12.5	71-160
<b>Thyroxine-binding globulin</b>	μg/mL	17.094	nmol/L	16.0-24.0	206-309
<b>Transferrin</b>	mg/dL	0.123	μmol/L	200-400	2.5-5.0
<b>Triglycerides</b>	mg/dL	0.0113	mmol/L	<160	1.8
<b>Urea nitrogen</b>	mg/dL	0.357	mmol/L	8-23	2.9-8.2
<b>Uric acid</b>	mg/dL	59.485	μmol/L	4.0-8.0	240-480
<b>Vancomycin</b>	μg/mL	0.69	μmol/L	20-40	14-28
<b>Vitamin B<sub>12</sub></b>	pg/mL	0.7378	pmol/L	160-950	118-701
<b>Vitamin D (1,25 dihydroxyvitamin D)</b>	pg/mL	2.6	pmol/L	25-45	60-108
<b>Vitamin D (25-hydroxyvitamin D)</b>	ng/mL	2.496	nmol/L	14-60	35-150
<b>White blood cell count</b>	/μL	0.001	×10 <sup>9</sup> /L	4500-11000	4.5-11.0
<b>Differential count</b>					
<b>Neutrophils-segmented</b>	/μL	0.001	×10 <sup>9</sup> /L	1800-7800	1.8-7.8
<b>Neutrophils-bands</b>	/μL	0.001	×10 <sup>9</sup> /L	0-700	0-0.70
<b>Lymphocytes</b>	/μL	0.001	×10 <sup>9</sup> /L	1000-4800	1.0-4.8
<b>Monocytes</b>	/μL	0.001	×10 <sup>9</sup> /L	0-800	0-0.80
<b>Eosinophils</b>	/μL	0.001	×10 <sup>9</sup> /L	0-450	0-0.45
<b>Basophils</b>	/μL	0.001	×10 <sup>9</sup> /L	0-200	0-0.20

Adapted from AMA Manual of Style (<http://www.amamanualofstyle.com/page/si-conversion-calculator?print>)