NORMAL LABORATORY VALUES

Mean values in a healthy population ± 2 standard deviations (SD), which includes about 95% of this population.

Test	Specimen	Method	Conventional Units	SI Units	PPM
Aluminum	Serum	AAS	3-10 ug/L	111-371nmol/L	0.003 - 0.010
Ammonia	Plasma	Colorimetry	0.17-0.80 ug/mL	10-47 umol/L	0.17 - 0.80
Cadmium	Blood	AAS	< 2 ug/L (nonsmoker)	< 17.8 nmol/L (nonsmoker	< 0.0020
Calcium	Serum	Colorimetry	8.5-10.3 mg/dL	2.12-2.57 mmol/day	85 - 1280
Carbon Dioxide	Serum	Colorimetry	20-32 mmol/L	20-32 mmol/L	880 - 1400
Chloride	Serum	ISE	95-108 mmol/L	95-108 mmol/L	3372 - 3834
Copper	Serum	AAS	70-155 ug/dL	11.0-24.4 umol/L	0.70 – 1.55
Cyanide	Blood	Colorimetry	<0.1 mg/L	<3.8 umol/L	< 0.09
Iron	Serum	Colorimetry	25-170 ug/dL	4-30 umol/L	0.22 – 1.68
Lead	Blood	AAS	<25 ug/dL	<1.21 umol/L	< 0.250
Magnesium	Serum	Colorimetry	0.6-1.0 mmol/L	0.6-1.0 mmol/L	14.58 – 24.3
Mercury	Blood	AAS	<1ug/dL	<50 nmol/L	< 0.010
Phosphorus	Serum	Colorimetry	2.5-4.5 mg/dL	0.81-1.45 mmol/L	25 - 45
Potassium	Serum	ISE	3.5-5.3 mmol/L	3.5-5.3 mmol/L	137 - 207
Sodium	Serum	ISE	135-146 mmol/L	135-146 mmol/L	3100 - 3360
Urea nitrogen, blood (BUN)	Serum	Colorimetry	7-30 mg/dL	2.5-10.7 mmol urea/L	35 - 150
Uric Acid	Serum	Colorimetry	Male: 4.0-8.5 mg/dL Female: 2.5-7.5 mg/dL	Male: 238-506 umol/dL Female: 149-446 umol/dL	400 –850 250 - 750
Zinc	Plasma	AAS	60-130 ug/dL	9.2-19.9 umol/L	1.60 – 1.30

Source: The Merck Manual, Seventeenth Edition. The last column was added to express the amounts present in parts-per-million.