

Laboratory Values

	Reference Range	SI Reference Intervals
ERUM		
General Chemistry:		
Electrolytes		
Sodium (Na+)	136-146 mEq/L	136-146 mmol/L
Potassium (K+)	3.5–5.0 mEq/L	3.5-5.0 mmol/L
	<u> </u>	95-105 mmol/L
Chloride (CI-)	95-105 mEq/L	·
Bicarbonate (HCO₃⁻)	22-28 mEq/L	22-28 mmol/L
Urea nitrogen	7-18 mg/dL	2.5-6.4 mmol/L
Creatinine	0.6-1.2 mg/dL	53-106 μmol/L
Glucose	Fasting: 70-100 mg/dL	3.8-5.6 mmol/L
Calainna	Random, non-fasting: <140 mg/dL	<7.77 mmol/L
Calcium	8.4-10.2 mg/dL	2.1-2.6 mmol/L
Magnesium (Mg ²⁺)	1.5-2.0 mg/dL	0.75-1.0 mmol/L
Phosphorus (inorganic)	3.0-4.5 mg/dL	1.0-1.5 mmol/L
Hepatic:		
Alanine aminotransferase (ALT)	10-40 U/L	10-40 U/L
Aspartate aminotransferase (AST)	12-38 U/L	12-38 U/L
Alkaline phosphatase	25-100 U/L	25-100 U/L
Bilirubin, total // direct	0.1-1.0 mg/dL // 0.0-0.3 mg/dL	2-17 μmol/L // 0-5 μmol/L
Proteins, total	6.0-7.8 g/dL	60-78 g/L
Albumin	3.5-5.5 g/dL	35-55 g/L
Globulin	2.3-3.5 g/dL	23-35 g/L
Other, serum:		
Amylase	25-125 U/L	25-125 U/L
Lipase	13-60 U/L	13-60 U/L
•	Male: 97-137 mL/min	97-137 mL/min
Creatinine clearance	Female: 88-128 mL/min	88-128 mL/min
Creating kinasa	Male: 25-90 U/L	25-90 U/L
Creatine kinase	Female: 10-70 U/L	10-70 U/L
Lactate dehydrogenase	45-200 U/L	45-200 U/L
Osmolality	275-295 mOsmol/kg H ₂ O	275-295 mOsmol/kg H ₂ O
Troponin I	≤0.04 ng/mL	≤0.04 µg/L
Uric acid	3.0-8.2 mg/dL	0.18-0.48 mmol/L

Laboratory Values (continued)

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_ipids:		
Cholesterol		
Total	Normal: <200 mg/dL	<5.2 mmol/L
. 500.	High: >240 mg/dL	>6.2 mmol/L
HDL	40-60 mg/dL	1.0-1.6 mmol/L
LDL	<160 mg/dL	<4.2 mmol/L
Triglycerides	Normal: <150 mg/dL	<1.70 mmol/L
	Borderline: 151-199 mg/dL	1.71-2.25 mmol/L
ron Studies:		
Forwitin	Male: 20-250 ng/mL	20-250 μg/L
Ferritin	Female: 10-120 ng/mL	10-120 μg/L
Iron	Male: 65-175 μg/dL	11.6-31.3 μmol/L
	Female: 50-170 μg/dL	9.0-30.4 μmol/L
Total iron-binding capacity	250-400 μg/dL	44.8-71.6 μmol/L
Transferrin	200-360 mg/dL	2.0-3.6 g/L
Endocrine:		
	Male: 4-25 mIU/mL	4-25 IU/L
Follicle-stimulating hormone	Female: premenopause 4-30 mIU/mL	4-30 IU/L
Tollier still didn't formatie	midcycle peak 10-90 mIU/mL	10-90 IU/L
	postmenopause 40-250 mIU/mL	40-250 IU/L
	Male: 6-23 mIU/mL Female: follicular phase 5-30 mIU/mL	6-23 IU/L 5-30 IU/L
Luteinizing hormone	midcycle 75-150 mIU/mL	75-150 IU/L
	postmenopause 30-200 mIU/mL	30-200 IU/L
	Fasting: <5 ng/mL	<5 μg/L
Growth hormone - arginine stimulation	Provocative stimuli: >7 ng/mL	>7 μg/L
Prolactin (hPRL)	Male: <17 ng/mL	<17 µg/L
Tolactili (III NE)	Female: <25 ng/mL	<25 μg/L
	0800 h: 5-23 μg/dL	138-635 nmol/L
Cortisol	1600 h: 3-15 µg/dL	82-413 nmol/L
TCU	2000 h: <50% of 0800 h	Fraction of 0800 h: <0.50
TSH	0.4-4.0 μU/mL	0.4-4.0 mIU/L
Triiodothyronine (T ₃) (RIA)	100-200 ng/dL	1.5-3.1 nmol/L
Triiodothyronine (T ₃) resin uptake	25%-35%	0.25-0.35
Thyroxine (T ₄)	5-12 µg/dL	64-155 nmol/L
Free T ₄	0.9-1.7 ng/dL	12.0-21.9 pmol/L
Thyroidal iodine (1231) uptake	8%-30% of administered dose/24 h	0.08-0.30/24 h
Intact PTH	10-60 pg/mL	10-60 ng/L
17-Hydroxycorticosteroids	Male: 3.0-10.0 mg/24 h	8.2-27.6 μmol/24 h
	Female: 2.0-8.0 mg/24 h Male: 8-20 mg/24 h	5.5-22.0 μmol/24 h 28-70 μmol/24 h
17-Ketosteroids, total	Maie: 8-20 mg/24 n Female: 6-15 mg/24 h	28-70 μmoi/24 h 21-52 μmoi/24 h

Laboratory Values (continued)

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Immunoglobulins:		
IgA	76-390 mg/dL	0.76-3.90 g/L
lgE	0-380 IU/mL	0-380 kIU/L
IgG	650-1500 mg/dL	6.5-15.0 g/L
IgM	50-300 mg/dL	0.5-3.0 g/L
SASES, ARTERIAL BLOOD (ROOM AIR)		
Po ₂	75-105 mm Hg	10.0-14.0 kPa
Pco ₂	33-45 mm Hg	4.4-5.9 kPa
На	7.35-7.45	[H ⁺] 36-44 nmol/L
EREBROSPINAL FLUID		
Cell count	0-5/mm ³	0-5 × 10 ⁶ /L
Chloride	118-132 mEq/L	118-132 mmol/L
Gamma globulin	3%-12% total proteins	0.03-0.12
Glucose	40-70 mg/dL	2.2-3.9 mmol/L
Pressure	70-180 mm H ₂ O	70-180 mm H ₂ O
Proteins, total	<40 mg/dL	<0.40 g/L
Complete Blood Count: Hematocrit	Male: 41%-53%	0.41-0.53
Hematocrit		
	Female: 36%-46% Male: 13.5-17.5 g/dL	0.36-0.46 135-175 g/L
Hemoglobin, blood	Female: 12.0-16.0 g/dL	120-160 g/L
Mean corpuscular hemoglobin (MCH)	25-35 pg/cell	0.39-0.54 fmol/cell
Mean corpuscular hemoglobin conc. (MCHC)	31%-36% Hb/cell	4.8-5.6 mmol Hb/L
Mean corpuscular volume (MCV)	80-100 μm ³	80-100 fL
Volume		
Diamag	Male: 25-43 mL/kg	0.025-0.043 L/kg
Plasma	Female: 28-45 mL/kg	0.028-0.045 L/kg
Red cell	Male: 20-36 mL/kg	0.020-0.036 L/kg
	Female: 19-31 mL/kg	0.019-0.031 L/kg
Leukocyte count (WBC)	4500-11,000/mm ³	4.5-11.0 × 10 ⁹ /L
Neutrophils, segmented	54%-62%	0.54-0.62
Neutrophils, bands	3%-5%	0.03-0.05
Lymphocytes	25%-33%	0.25-0.33
Monocytes	3%-7%	0.03-0.07
Eosinophils	1%-3%	0.01-0.03
Basophils	0%-0.75%	0.00-0.0075
Вазортніз		

Laboratory Values (continued)

	Reference Range	SI Reference Intervals
Coagulation:		
Partial thromboplastin time (PTT/aPTT) (activated)	25-40 seconds	25-40 seconds
Prothrombin time (PT)	11-15 seconds	11-15 seconds
D-dimer	≤250 ng/mL	≤1.4 nmol/L
Other, Hematologic:		
Reticulocyte count	0.5%-1.5%	0.005-0.015
F (DDC)	Male: 4.3-5.9 million/mm ³	4.3-5.9 × 10 ¹² /L
Erythrocyte count (RBC)	Female: 3.5-5.5 million/mm ³	3.5-5.5 × 10 ¹² /L
Erythrocyte sedimentation rate	Male: 0-15 mm/h	0-15 mm/h
(Westergren)	Female: 0-20 mm/h	0-20 mm/h
CD4+ T-lymphocyte count	≥500/mm³	≥0.5 × 10 ⁹ /L
Endocrine:		
Hemoglobin A _{1c}	≤6%	≤42 mmol/mol
URINE		
Calcium	100-300 mg/24 h	2.5-7.5 mmol/24 h
Osmolality	50-1200 mOsmol/kg H ₂ O	50-1200 mOsmol/kg H ₂ O
Oxalate	8-40 μg/mL	90-445 μmol/L
Proteins, total	<150 mg/24 h	<0.15 g/24 h
BODY MASS INDEX (BMI)	Adult: 19-25 kg/m²	