## <u>LABORATORY VALUES</u> (see inside back cover for continuation) \* Included in the Biochemical Profile (SMA-12)

BLOOD, PLASMA, SERUM	REFERENCE RANGE	SI REFERENCE INTERVALS
* Alanine aminotransferase (ALT), serum	8-20 U/L	8-20 U/L
Amylase, serum	25-125 U/L	25-125 U/L
* Aspartate aminotransferase (AST), serum	8-20 U/L	8-20 U/L
Bilirubin, serum (adult) Total // Direct	0.1-1.0 mg/dL // 0.0-0.3 mg/dL	2-17 umol/L // 0-5 umol/L
* Calcium, serum (Ca <sup>2+</sup> )	8.4-10.2 mg/dL	2.1-2.8 mmol/L
* Cholesterol, serum	Rec:<200 mg/dL	<5.2 mmol/L
Cortisol, serum	0800 h: 5-23 µg/dL // 1600 h: 3-15 µg/dI	138-635 nmol/L // 82-413 nmol/L
Cortison, serum	$2000 \text{ h}: \le 50\% \text{ of } 0800 \text{ h} \dots$	Fraction of 0800 h: < 0.50
Creatine kinase, serum	Male: 25-90 II/I	25-90 H/I
,	Female: 10-70 U/L	10-70 U/L
* Creatinine, serum	0.6-1.2 mg/dI	53-106 umol/I
Electrolytes, serum	0.0-1.2 mg/uL	33-100 µmon E
Sodium (Na <sup>+</sup> )	136-145 mFa/I	136-145 mmol/I
* Potassium (K <sup>+</sup> )	3 5 5 0 mFa/I	3 5 5 0 mmol/I
Chloride (Cl <sup>-</sup> )	05 105 mEg/L	05 105 mmol/L
Bicarbonate (HCO <sub>3</sub> <sup>-</sup> )	93-103 IIIEq/L	93-103 IIIII0I/L 22 28 mmol/I
Magnesium (Mg <sup>2+</sup> )	1.5.2.0 mEa/L	22-20 HIIIIOI/L
February (in any angle)	1.3-2.0 IIIEq/L	0./3-1.0 IIIIIOI/L
Estriol, total, serum (in pregnancy) 24-28 wks // 32-36 wks	20 170 ng/mJ // 60 290 ng/mJ	10.4.500 pm.s1/I // 20.9.070 pm.s1/I
24-28 WKS // 32-30 WKS	30-1 /0 ng/mL // 60-280 ng/mL	104-590 nmoi/L // 208-970 nmoi/L
28-32 wks // 36-40 wks	40-220 ng/mL // 80-350 ng/mL	140-760 nmol/L // 280-1210 nmol/L
Ferritin, serum	E 1 10 1 70 1 Y	10 150 7
Follicle-stimulating hormone, serum/plasma	Female: 12-150 ng/mL	12-150 µg/L
Follicle-stimulating hormone, serum/plasma	Male: 4-25 mlU/mL	4-25 U/L
	Female: premenopause 4-30 mIU/mL	4-30 U/L
	midcycle peak 10-90 mIU/mL	
	postmenopause 40-250 mIU/mL	40-250 U/L
Gases, arterial blood (room air)		
pH	7.35-7.45	$[H^{T}]$ 36-44 nmol/L
Pco <sub>2</sub>	33-45 mm Hg	4.4-5.9 kPa
Po <sub>2</sub>	75-105 mm Hg	10.0-14.0 kPa
* Glucose, serum	Fasting: 70-110 mg/dL	3.8-6.1 mmol/L
	2-h postprandial: < 120 mg/dL	< 6.6 mmol/L
Growth hormone - arginine stimulation	Fasting: < 5 ng/mL	$ < 5 \mu g/L$
	provocative stimuli: > 7 ng/mL	> 7 μg/L
Immunoglobulins, serum		
IgA	76-390 mg/dL	0.76-3.90 g/L
IgE	0-380 IU/mL	0-380 kIU/L
IğG	650-1500 mg/dL	6.5-15 g/L
IğM		
Iron	50-170 μg/dL	9-30 μmol/L
Lactate dehydrogenase, serum		
Luteinizing hormone, serum/plasma	Male: 6-23 mIU/mL	6-23 U/L
	Female: follicular phase 5-30 mIU/mL	5-30 U/L
	midcycle 75-150 mIU/mL	75-150 U/L
	postmenopause 30-200 mIU/mL	30-200 U/L
Osmolality, serum	$\dots 275-295$ mOsmol/kg $H_2O$	275-295 mOsmol/kg H <sub>2</sub> O
Parathyroid hormone, serum, N-terminal	230-630 pg/mL	230-630 ng/L
* Phosphatase (alkaline), serum (p-NPP at 30°C)	20-70 U/L	20-70 U/L
* Phosphorus (inorganic), serum	3.0-4.5 mg/dL	1.0-1.5 mmol/L
Prolactin, serum (hPRL)	< 20 ng/mL	< 20 μg/L
* Proteins, serum	•	
Total (recumbent)	6.0-7.8 g/dL	60-78 g/L
Albumin		
Globulin	2.3-3.5 g/dL	23-35 g/L
Thyroid-stimulating hormone, serum or plasma		
Thyroidal iodine (123I) uptake	8%-30% of administered dose/24 h	0.08-0.30/24 h
Thyroxine $(T_4)$ , serum	5-12 µg/dL	64-155 nmol/L
Triglycerides, serum	35-160 mg/dL	0.4-1.81 mmol/L
Triiodothyronine (T <sub>3</sub> ), serum (RIA)	115-190 ng/dL	1.8-2.9 nmol/L
Triiodothyronine (T <sub>3</sub> ), serim (ter )		
* Urea nitrogen, serum	7-18 mg/dL	1.2-3.0 mmol/L
* Uric acid, serum	3.0-8.2 mg/dL	0.18-0.48 mmol/L
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## <u>LABORATORY VALUES</u> (continued from page 2)

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	REFERENCE RANGE	SI REFERENCE INTERVALS	
BODY MASS INDEX (BMI)	REFERENCE REPORT	STRETERENCE INTERVIRES	
Body mass index	Adult: 19-25 kg/m <sup>2</sup>		
CERÉBROSPINAL FLUID			
Cell count			
Chloride			
Gamma globulin			
Glucose	40-70 mg/dL	2.2-3.9 mmol/L	
Pressure	/0-180 mm H <sub>2</sub> O	70-180 mm H <sub>2</sub> O	
Proteins, total	<40 mg/dL	<0.40 g/L	
HEMATOLOGIC  Planding time (template)	2.7 minutes	2.7 minutes	
Erythrocyte count	Mole: 4.2.5.0 million/mm <sup>3</sup>	4.2.5.0 v. 10 <sup>12</sup> /J	
Eryunocyte count	Female: 3 5-5 5 million/mm <sup>3</sup>	3.5-5.5 x 10 <sup>-12</sup> /I	
Bleeding time (template) Erythrocyte count Erythrocyte sedimentation rate (Westergren)	Male: 0-15 mm/h	0-15 mm/h	
Elythocyte sedimentation rate (westergrein)	Female: 0-20 mm/h	0-20 mm/h	
Hematocrit	Male: 41%-53%	0.41-0.53	
	Female: 36%-46%	0.36-0.46	
Hemoglobin A <sub>1c</sub> Hemoglobin, blood	<u>&lt;</u> 6%	<u>&lt;</u> 0.06	
Hemoglobin, blood	Male: 13.5-17.5 g/dL	$\overline{2}$ .09-2.71 mmol/L	
Hemoglobin, plasma	Female: 12.0-16.0 g/dL	1.86-2.48 mmol/L	
Hemoglobin, plasma	1-4 mg/dL	0.16-0.62 mmol/L	
Leukocyte count and differential	4500 44 0007 3	1 7 11 0 109 7	
Leukocyte count	4500-11,000/mm <sup>3</sup>	4.5-11.0 x 10 <sup>2</sup> /L	
Segmented neutrophils	54%-62%	0.54-0.62	
Bands Eosinophils			
Basophils	1%-3%	0.0075	
Lymphocytes	25% <sub>-</sub> 33%	0.25-0.33	
Monocytes	3%-7%	0.03-0.07	
Mean corpuscular hemoglobin	25.4-34.6 pg/cell	0.39-0.54 fmol/cell	
Mean corpuscular hemoglobin concentration	31%-36% Hb/cell	4 81-5 58 mmol Hb/L	
Mean corpuscular volume	80-100 μm <sup>3</sup>	80-100 fL	
Partial thromboplastin time (activated)	25-40 seconds	25-40 seconds	
Platelet count	150,000-400,000/mm <sup>3</sup>	150-400 x 10 <sup>9</sup> /L	
Prothrombin time	11-15 seconds	11-15 seconds	
Reticulocyte count	0.5%-1.5%	0.005-0.015	
Thrombin time	<2 seconds deviation from control		
V-1		control	
Volume Plasma	Molo: 25 42 mJ /kg	0.025.0.042 I./kg	
	T 1 20 45 T 1	0.000.0045.1.4	
Red cell	Male: 20-36 mI /kg	0.020-0.045 L/kg	
Rod Coll	Female: 19-31 mL/kg	0.019-0.031 L/kg	
SWEAT	Temate: 19 31 mil/kg	0.017 0.031 <u>L</u> /Rg	
Chloride	0-35 mmol/L	0-35 mmol/L	
URINE			
Calcium			
Chloride		Varies with intake	
Creatinine clearance			
T (1.1.4.1.4)	Female: 88-128 mL/min		
Estriol, total (in pregnancy)	6 10 /241	21.62	
30 wks			
40 wks			
17-Hydroxycorticosteroids			
17-11ydioxycolicostciolds	Female: 2.0-8.0 mg/24 h		
17-Ketosteroids, total			
	Female: 6-15 mg/24 h		
Osmolality	50-1400 mOsmol/kg H <sub>2</sub> O	•	
Oxalate	8-40 μg/mL	90-445 μmol/L	
Potassium			
Proteins, total			
Sodium			
Uric acid	varies with diet	Varies with diet	