

NORMAL LABORATORY VALUES

A

ALANINE AMINOTRANSFERASE (ALT, SGPT) ... 8-20 U/L

ALBUMIN (SERUM) ... Less than 150 mg/d when walking

ALBUMIN (SERUM) ... 3.5-5.0 g/dL

ALBUMIN (CSF) ... 15-45 mg/dL

ALBUMIN (URINE) ... Less than 80 mg/d at rest

ALBUMIN (URINE) ... Qualitative = Negative ... Quantitative = 10-100 mg/24 hours

ALDOSTERONE (URINE) ... 3-20 mcg/24 hours

ALDOSTERONE (PLASMA OR SERUM) ... 3-10 ng/dL (laying down)

ALDOSTERONE (PLASMA OR SERUM) ... 5-30 ng/dL (standing)

ALKALINE PHOSPHATASE (SERUM) ... Adult female = 49-98 U/L

ALKALINE PHOSPHATASE (SERUM) ... Adult male = 53-128 U/L

AMMONIA (PLASMA) ... 20-120 mcg/100 ml

AMMONIA NITROGEN (URINE) ... 20-70 mEq/24 hours

AMYLASE (SERUM) ... Less than 160 Caraway units/100 ml

AMYLASE (URINE, TIMED SPECIMEN) ... 1-17 U/h

AMYLASE (URINE) ... 35-260 Caraway units/hour

ANGIOTENSIN I (VENOUS PLASMA) ... 11-88 pg/mL

ANGIOTENSIN II (PLASMA) ... 11-60 pg/mL

ANION GAP (PLASMA OR SERUM) ... 7-14 mEq/L

ASCORBIC ACID (BLOOD) ... 0.4 - 1.5 mg/100 ml

ASPARTATE AMINOTRANSFERASE / AST / SGOT (SERUM) ... 10-30 U/L

B

BICARBONATE (SERUM) ... 23-29 mEq/liter

BILIRUBIN - QUALITATIVE (URINE) ... Negative

BILIRUBIN TOTAL (URINE) ... Negative

BILIRUBIN (SERUM) ... Direct = 0.1 - 0.4 mg/100 ml ... Indirect = 0.2 - 0.7 mg/100 ml ... Total = 0.3 - 1.1 mg/1000 ml

BILIRUBIN TOTAL (SERUM) ... 0.2-1.0 mg/dL

BILIRUBIN -CONJUGATED/DIRECT (SERUM) ... 0-0.2 mg/dL

C

CALCIUM (SERUM) ... 4.5 - 5.5 mEq/liter ... 9.0 - 11 mg/100 ml

CALCIUM TOTAL (SERUM) ... 8.4 - 10.2 mg/dL

CALCIUM - IONIZED (SERUM) ... 2.1 - 2.6 mEq/liter ... 4.25 - 5.25 mg/100 ml

CALCIUM, IONIZED -iCa (SERUM) ... 4.65-5.28 mg/dL

CALCIUM TOTAL (URINE 24 hours) ... 100-300 mg/dL

CALCIUM (URINE) ... Normal diet = less than 250 mg/24 hours ... Low calcium diet = less than 150 mg/24 hours

CALCIUM TOTAL (CSF) ... 4.2 - 5.4 mg/dL

CARBON DIOXIDE TOTAL - TCO₂ (SERUM OR PLASMA) ... 23-29 mEq/L

CARBON DIOXIDE (SERUM) ... Adults = 24-30 mEq/liter ... Infants 20-28 mEq/liter

CARBON DIOXIDE - PCO₂ ... 35-45 mm Hg

CAROTENE (SERUM) ...50-300 mcg/100 ml

B-CAROTENE (SERUM) ... 10-85 UG/dL

CATECHOLAMINES, TOTAL (URINE - 24 HOURS) ... Less than 100 UG/d

CELL COUNTS (BLOOD):

ERYTHROCYTES Male = 4.6 - 6.2 million/cubic mm

ERYTHROCYTES Female = 4.2 - 5.4 million/cubic mm

ERYTHROCYTES Children (varies with age) = 4.6 - 6.2 million/cubic mm

- **LEUKOCYTES=WBC= Total = 4500-11,000/cubic mm**

DIFFERENTIAL

MYELOCYTES = 0%

BAND NEUTROPHILS = 3%-5%

SEGMENTED NEUTROPHILS = 54%-62%

LYMPHOCYTES = 25%-33%

MONOCYTES = 3%-7%

EOSINOPHILS = 1%-3%

BASOPHILS = 0%-0.75%

PLATELETS (BLOOD) = 150,000 - 350,000 / cubic mm

RETICULOCYTES (BLOOD) = 25,000 - 75,000 / cubic mm

CASTS (URINE SEDIMENT) ... Occasionally hyaline casts are seen (0-1) ... WBC not seen ... RBC not seen ... Tubular epithelial not seen ... transitional and squamous epithelial not seen.

CELLS (URINE SEDIMENT) ... No bacteria, no organisms. Red blood cells = 0-2 ... Male white blood cells = 0-3 ... Female white blood cells = 0-5

CHLORIDE (SERUM OR PLASMA) ... 98-106 mEq/dL

CHLORIDE (CSF) ... 118-132 mEq/L

CHLORIDE (URINE - 24 HOURS) ... 110-250 mEq/d

CHOLESTEROL (SERUM) ... Total = 150-250 mg/100 ml

CHOLESTEROL TOTAL (SERUM OR PLASMA) ... Less than 200 mg/dL

CHORIONIC GONADOTROPIN (SERUM OR PLASMA) ... Males & non-pregnant females = Less than 5.0 mU/mL

COMPLEMENT / TOTAL HEMOLYTIC (PLASMA) ... 75-160 U/mL

COPPER (SERUM) ... Male = 70-140 UG/dL ... Female = 80-155 UG/dL

COPPER (SERUM) ... Male = 70-140 mcg/100 ml ... Female = 85-155 mcg/100 ml

COPPER (ERYTHROCYTE/HEPARIN) ... 90-150 UG/dL

COPPER (URINE 24 HOURS) ... 3-35 UG/d

CORPUSCULAR VALUES OF ERYTHROCYTES

M.C.H. (mean corpuscular hemoglobin) = 27-31 picogram

M.C.V. (mean corpuscular volume) = 80-105 cubic micra

M.C.H.C. (mean corpuscular hemoglobin concentration) = 32%-36%

CORTISOL (SERUM OR PLASMA) ... 0800 h: 5-23 UG/dL ... 1600 h: 3-15 ng/dL
... 2000 h: Less than or equal to 0800

CORTISOL FREE (URINE 24 HOUR) ... 10-100 UG/d

C-PEPTIDE (SERUM) ... 0.78-1.89 ng/mL

C-REACTIVE PROTEIN (SERUM) ... 68-8200 ng/mL

CREATINE (SERUM) ... 0.2 - 0.8 mg/100 ml

CREATINE PHOSPHOKINASE (SERUM) ... Males = 0-50 milliunits/ml ... Females = 0-30 milliunits/ml

CREATINE (URINE) ... Males = 0-40 mg/24 hours ... Female = 0-100 mg/24 hours

CREATINE KINASE (CK) ... Male = 38-174 U/L ... Female 26-140 U/L

CREATININE (SERUM OR PLASMA) ... Male = 0.7-1.3 mg/dL ... Female = 0.6-1.1 mg/dL

CREATININE (SERUM) ... 0.7-1.5 mg/100 ml

CREATININE (URINE) ... 15-25 mg/kg body weigh/24 hours

DEHYDROEPIANDROSTERONE SERUM (DHEA) ... Male = 1.8-12.5 ng/mL ... Female = 1.3-9.8 ng/mL

DEHYDROEPIANDROSTERONE SULFATE (DHEA-S) ... Male = 1.7-6.7 UG/mL ... Premenopausal female = 0.5-5.4 UG/mL ... Postmenopausal female = 0.3-2.6 UG/mL

DIFFERENTIAL CELL COUNT

MYELOCYTES = 0%

BAND NEUTROPHILS = 3%-5%

SEGMENTED NEUTROPHILS = 54%-62%

LYMPHOCYTES = 25%-33%

MONOCYTES = 3%-7%

EOSINOPHILS = 1%-3%

BASOPHILS = 0%-0.75%

EPINEPHRINE (URINE) ... Less than 10 mcg/24 hours

ESTRADIOL ESTROGEN (URINE) ... Male = 0-6 UG/24 hours ... Females = 0-14 UG/24 hours

ESTRIOL ESTROGEN (URINE) ... Male = 1-11 UG/24 hours ... Females = 0-72 UG/24 hours

ESTROGENS TOTAL (SERUM) ... Male = 20-80 pg/mL ... Female (follicular phase) = 60-200 pg/mL ... Female (luteal phase) = 160-400 pg/mL ... Female (postmenopausal) = Less than 130 pg/mL

ESTROGENS TOTAL (URINE, 24-H) ... Male = 15-40 UG/d ... Female (pre ovulation) = 4-25 UG/d ... Female (ovulation) = 28-100 UG/d ... Female (luteal peak) = 22-80 UG/d ... Female (pregnancy term) = Less than 45,000 UG/d ... Female (postmenopausal) = Less than 20 UG/d

ESTROGEN - TOTAL (URINE) ... Male = 4-25 UG/24 hour ... Females = 5-100 UG/24 hours

ESTRONE ESTROGEN (URINE) ... Male = 3-8 UG/24 hours ... Females = 4-31 UG/24 hours

FAT, FECAL (72 HOURS) ... Less than 7 g/d

FATTY ACIDS - NONESTERIFIED (SERUM OR PLASMA) ... 8-25 mg/dL

FATTY ACIDS - TOTAL (SERUM) ... 190-420 mg/100 ml

FERRITIN (SERUM) ... Male = 20-250 ng/mL ... Female = 10-120 ng/mL

FERRITIN (SERUM) ... 20-200 nanogram/ml

a1-FETOPROTEIN (SERUM) ... Less than 10 ng/mL

FIBRINOGEN (PLASMA) ... 200-400 mg/dL

FIBRINOGEN (PLASMA) ... 200-400 mg/100 ml

FOLATE (SERUM)... 3-16 ng/mL

FOLATE (ERYTHROCYTES) ... 130-628 ng/mL packed cells

FOLATE (SERUM) ... 5-21 nanogram/ml

FOLLICLE STIMULATING HORMONE - FSH (PLASMA) ... Males = 4-25 milliunits/ml (I.U.) ... Female = 3-30 milliunits/ml ... Postmenopausal 40-250 milliunits/ml

FOLLITROPIN /FSH (SERUM OR PLASMA) ... Male = 4-25 mIU/mL ... Female (follicular phase) = 1-9 mU/mL ... Female (ovulatory peak) = 6-26 mU/mL ...

Female (luteal phase) = 1-9 mU/mL ... Female (postmenopausal) = 30-118 mU/mL

GAMMA GLUTAMYLTRANSFERASE ... Males = 6-32 milliunits/ml ... Females = 4-18 milliunits/ml

GASTRIN (SERUM) ... Less than 100 pg/mL

GLUCOSE (SERUM) ... 70-105 mg/dL ... Over 60 years old = 80-115 mg/dL

GLUCOSE 2 HOURS POSTPRANDIAL (SERUM) ... Less than 120 mg/dL

GLUCOSE (WHOLE BLOOD / HEPARIN) ... 65-95 mg/dL

GLUCOSE - FASTING (BLOOD) ... 60-100 mg/100 ml

GLUCOSE - FASTING (PLASMA OR SERUM) ... 70-115 mg/100 ml

GLUCOSE (CSF) ... 40-70 mg/dL

GLUCOSE QUANTITATIVE ENZYMATIC (URINE) ... Less than 0.5 g/d

GLUCOSE QUALITATIVE (URINE) ... Negative

GLUTAMYLTRANSFERASE (SERUM) ... Male = 9-50 U/L ... Female = 8-40 U/L

GLYCEROL FREE (PLASMA) ... 0.29-1.72 mg/dL

GROWTH HORMONE / HGH (SERUM OR PLASMA) ... Male = Greater than 2 ng/mL ... Male greater than 60 years old = Less than 0.4-10 ng/mL ... Female = Less than 10 ng/mL ... Female greater than 60 years old = Less than 1-14 ng/mL

HAPTOGLOBIN (SERUM) ... 26-185 mg/dL

HAPTOGLOBIN (SERUM) ... 100-200 mg/100 ml

HEMATOCRIT ... Male = 40-54 ml/100 ml ... Female = 37- 47 ml/100 ml ... Newborn = 49-54 ml/100 ml ... Children = 35-49 ml/100 ml

HEMOGLOBIN A1c ... 3%-5% of total.

HEMOGLOBIN A2 ... 1.5%-3% of total.

HEMOGLOBIN (PLASMA) ... 0-5 mg/100 ml

HDL CHOLESTEROL (SERUM OR PLASMA) ... Male = less than 29 mg/dL ... Female = 35 mg/dL

HEMOGLOBIN (WHOLE BLOOD) ... Male = 14-18 grams/100 ml ... Female = 12-16 grams/100 ml ... Newborn = 16.5 - 19.5 grams/100 ml ... Children = 11.2 - 16.5 grams/100 ml

HEMOGLOBIN A1c (WHOLE BLOOD) ... 5.6 - 7.5% of total Hb

**HYDROXYBUTYRIC DEHYDROGENASE (SERUM) ... 0-180 milliunits/ml
(RosalkiiWilkinson) ... 114-290 units/ml (Wroblewski)**

**HYDROXYCORTICOSTEROIDS (URINE 24 HOURS) ... Male = 3.0 -10.0 mg/d ...
Female = 2-8 mg/d**

**17-HYDROXYCORTICOSTEROIDS (URINE) ... Males = 3-9 mg/24 hours ...
Females = 2-8 mg/24 hours**

17-HYDROXYCORTICOSTEROIDS (PLASMA) ... 8-18 mcg/100 ml

IMMUNOGLOBULIN A / IgA (SERUM) ... 40-350 mg/dL

IMMUNOGLOBULIN A / IgA (SERUM) ... 60-333 mg/100 ml

IMMUNOGLOBULIN C / IgC (SERUM) ... 550-1900 mg/100 ml

IMMUNOGLOBULIN D / IgD (SERUM) ... 0-8 mg/dL

IMMUNOGLOBULIN E / IgE (SERUM) ... 0-380 IU/mL

IMMUNOGLOBULIN G / IgG (SERUM) ... 650-1600 mg/dL

IMMUNOGLOBULIN G / IgG (CSF) ... 0.5-5 mg/dL

IMMUNOGLOBULIN M / IgM (SERUM) ... 55-300 mg/dL

IMMUNOGLOBULIN M / iGm(SERUM) ... 45-145 mg/100 ml

INSULIN 12 HOUR FASTING (SERUM) ... 6-24 uIU/mL

INSULIN - FASTING (PLASMA) ... 5-25 microunits/ml

IODINE - PROTEIN BOUND (SERUM) ... 3.5-8.0 mcg/100 ml

IRON (SERUM) ... 75-175 UG/100 ml

IRON (SERUM) ... Male = 65-175 UG/dL ... Female = 50-170 UG/dL

IRON BINDING CAPACITY, TOTAL / TIBC (SERUM) ... 250-450 UG/dL

**IRON BINDING CAPACITY, TOTAL / TIBC (SERUM) ... 250-410 mcg/100 ml ...
Saturation = 20%-55%**

IRON SATURATION (SERUM) ... Male = 20-50 ... Female = 15-50

**KETOGENIC STEROIDS 24 HOURS (URINE) ... Male = 5-23 mg/dL ... Female = 3-
15 mg/dL**

KETONE BODIES / QUALITATIVE (SERUM) ... Negative (0.5-3.0 mg/dL)

KETONE BODIES / QUALITATIVE (URINE) ... Negative

17-KETOSTEROIDS (PLASMA) ... 25-125 mcg/100 ml

**17-KETOSTEROIDS (URINE) ... Males = 6-18 mg/24 hours ... Females = 4-13
mg/24 hours**

LACTATE (WHOLE BLOOD / HEPARIN) ... 4.5-19.8 mg/dL (venous) ... 4.5-14.4 mg/dL (arterial)

LACTATE (VENOUS BLOOD) ... 0.6 - 1.8 mEq/liter

LACTATE DEHYDROGENASE / LDH (SERUM) ... 208-378 U/L

LEAD (WHOLE BLOOD / HEPARIN) ... Less than 40 UG/dL

LEAD 24 HOUR (URINE) ... Less than 80 UG/L

LUTEINIZING HORMONE - LH (SERUM) ... Males = 6-18 milliunits/ml ... Females (premenopausal) = 5-22 milliunits/ml ... Females (midcycle) = three times their normal value ... Females (postmenopausal) = greater than 30 milliunits/ml

LIPASE (SERUM) ... 10-140 U/L ... Over 60 years old = 18-180 U/L

LIPASE (SERUM) ... 0 - 1.5 units (Cherry-Crandall)

LDL CHOLESTEROL / LDLC (SERUM OR PLASMA) ... Less than 130 mg/dL

LIPIDS (SERUM) ... Total = 450-850 mg/100 ml

MAGNESIUM (SERUM) ... 1.3-2.1 mEq/L

MAGNESIUM 24 HOUR ... 6.0-10.0 mEq/d

MAGNESIUM (SERUM) ... 1.5 - 2.5 mEq/liter ... 1.8 - 3.0 mg/100 ml

MAGNESIUM (URINE) ... 6 - 8.5 mEq/24 hours

M.C.H. (mean corpuscular hemoglobin) = 27-31 picogram

M.C.V. (mean corpuscular volume) = 80-105 cubic micra

M.C.H.C. (mean corpuscular hemoglobin concentration) = 32%-36%

MERCURY (WHOLE BLOOD) ... Less than 5.0 UG/dL

MERCURY 24 HOUR (URINE) ... Less than 20 UG/dL

MYELIN BASIC PROTEIN (CSF) ... Less than 2.5 ng/mL

MYOGLOBIN (SERUM) ... Male = 19-92 UG/L ... Female = 12-76 UG/L

MYOGLOBIN (URINE) ... Negative

NOREPINEPHRINE (URINE) ... Less than 100 mcg/24 hours

OSMOLALITY (SERUM) ... 275-295 mOsm/kg

OSMOLALITY (SERUM) ... 285-295 mOsm/kg

OSMOLALITY (URINE) ... 50-1400 mOsm/kg

OSMOLALITY (URINE) ... 38-1400 mOsm/kg water

OXALATE (SERUM) ... 1-2.4 UG/mL

OXYGEN / PO2 (ARTERIAL WHOLE BLOOD / HEPARIN) ... 83-100 mm Hg

OXYGEN SATURATION (ARTERIAL WHOLE BLOOD / HEPARIN) ... 95%-98%

OXYGEN SATURATION (ARTERIAL BLOOD) ... 94%-100% of capacity

OXYGEN CONTENT (ARTERIAL BLOOD) ... 15%-25% of volume

OXYGEN CONTENT (VENOUS BLOOD) ... 10%-16% of volume

OXYGEN SATURATION (VENOUS) ... 60%-85% of volume of capacity

OXYGEN TENSION (ARTERIAL BLOOD) ... 75-100 mm Hg

PH @ 37 DEGREE C (ARTERIAL WHOLE BLOOD / HEPARIN) ... 7.35-7.45

PH (ARTERIAL BLOOD) ... 7.35 - 7.45

PH (URINE) ... 4.6 - 8

PHOSPHATASE - ACID (SERUM) ... 0-7 milliunits/ml (I.U.) @ 30 degrees ... 1-5 units (King-Armstrong)

PHOSPHATASE - ALKALINE (SERUM) ... 10-32 milliunits (I.U.) @ 30 degrees ... 5-13 units (King-Armstrong)

PHOSPHOLIPIDS (SERUM) ... 3.5 - 5 mEq/liter

PHOSPHOLIPIDS (SERUM) ... 6-12 mg/100 ml

PHOSPHORUS (SERUM) ... 2.7 - 4.5 mg/dL

PHOSPHORUS (URINE) ... 0.9 - 1.3 gm/24 hours

POTASSIUM (SERUM) ... 3.5-5.1 mEq/L

POTASSIUM (SERUM) ... 3.5 - 5 mEq/liter

POTASSIUM (PLASMA / HEPARIN) ... 3.5-4.5 mEq/L

POTASSIUM 24 HOUR (URINE) ... 25-125 mEq/d

POTASSIUM 24 HOUR (URINE) ... 25-100 mEq/d

PROGESTERONE (SERUM) ... Male = 0.13-0.97 ng/mL ... Female (follicular) = 0.15-0.70 ng/mL ... Female (luteal) = 2.0-25 ng/mL

PROTEIN TOTAL (SERUM) ... 6.4-8.3 d/dL

PROTEIN TOTAL (SERUM) ... 6-8 grams/100 ml ... Albumin = 3.5 - 5.5 grams/100 ml

PROTEIN ELECTROPHORESIS (SERUM) ... Albumin 3.5-5.0 g/dL

PROTEIN (URINE) ... Qualitative = Negative ... Quantitative = 10-150 mg/24 hours

PROTEIN 24 HOUR (URINE) ... 50-80 mg/d at rest

PROTEIN (CSF) ... Lumbar = 15-45 mg/dL

PYRUVATE (BLOOD)01 - 0.11 mEq/liter

PYRUVIC ACID (WHOLE BLOOD / HEPARIN) ... 0.3-0.9 mg/dL

SODIUM (SERUM OR PLASMA) ... 136-146 mEq/L

SODIUM (SERUM) ... 136-145 mEq/liter

SODIUM 24 HOUR (URINE) ... 40-220 mEq/d

SODIUM 24 HOUR (URINE) ... 130-260 mEq/d

SPECIFIC GRAVITY (URINE) ... 1.003 - 1.030

SPECIFIC GRAVITY (URINE) ... 1.002 - 1.030

SPECIFIC GRAVITY 24 HOUR (URINE) ... 1.015 - 1.025

TESTOSTERONE, FREE (SERUM) ... Male = 52 - 280 pg/mL ... Female = 1.6 - 6.3 pg/mL

TESTOSTERONE, TOTAL (URINE) ... Male 20-50 years old = 50-135 UG/d ... Female 20-50 years old = 2-12 UG/d ... Male greater than 50 years old = 40-60 UG/d ... Female greater than 50 years old = 2-8 UG/d

TESTOSTERONE (PLASMA) ... Males = 275-875 nanogram/100 ml ... Females = 23-75 nanogram/100 ml ... Females (pregnant) = 38-190 nanogram/100 ml

THROMBOPLASTIN TIME / APTT (WHOLE BLOOD) (ACTIVATED PARTIAL) ... 25-35 seconds

THYROGLOBULIN (SERUM) ... 3-42 ng/mL

THYROGLOBULIN ANTIBODIES (SERUM) ... Undetectable

THYROID STIMULATING HORMONE - TSH (SERUM) ... 0-7 microunits/ml

THYROTROPIN (SERUM OR PLASMA) ... 2-10 uU/mL

THYROTROPIN RELEASING HORMONE (PLASMA) ... 5-60 pg/mL

THYROXINE - FREE (SERUM) ... 1 - 2.1 nanogram /100 ml

THYROXINE FREE / FT4(SERUM) ... 0.8-2.4 ng/dL

THYROXINE - T4 (SERUM) ... 4.4 - 9.9 mcg/100 ml

THYROXINE T4 TOTAL (SERUM) ... 5-12 UG/dL ... Greater than 60 year old male = 5-10 UG/dL ... Greater than 60 year old female = 5.5 - 10.5 UG/dL

THYROXINE BINDING GLOBULIN - TBG (SERUM) ... 10-26 mcg/100 ml

THYROXINE IODINE (SERUM) ... 2.9 - 6.4 mcg/100 ml

TRANSAMINASE SGOT (SERUM) ... 0-19 milliunits/ml @ 30 degrees (I.U. - Karmen modified) ... 15-40 units/ml (Karmen) ... 18-40 units/ml (Reitman-Frankel)

TRANSAMINASE SGPT (SERUM) ... 0-17 milliunits/ml @ 30 degrees (I.U. - Karmen modified) ... 6-35 units/ml (Karmen) ... 5-35 units/ml (Reitman-Frankel)

TRANCORTIN (SERUM) ... Male = 18.8 - 25.2 mg/L ... Female = 14.9 - 22.9 mg/L

TRANSFERRIN (SERUM) ... 200 - 400 mg/dL ... Greater than 60 years old = 180-380 mg/dL

TRIGLYCERIDES / TG 12 HOURS (SERUM) ... Male = 40-160 mg/dL ... Female = 35-135 mg/dL

TRIGLYCERIDES (SERUM) ... 40-150 mg/100 ml

UREA NITROGEN (SERUM OR PLASMA) ... 7-18 mg/dL

UREA NITROGEN (PLASMA OR SERUM) ... 11-25 mg/100 ml

UREA NITROGEN (URINE) ... 12-20 g/d

UREA NITROGEN/CREATININE RATIO (SERUM) ... 12/l-20/l

UREA NITROGEN (BLOOD) ... 10-20 mg/100 ml

UREA (BLOOD) ... 21-43 mg/100 ml

UREA (PLASMA OR SERUM) ... 24-49 mg/100 ml

URIC ACID (SERUM) ... Male = 3.5 - 7.2 mg/dL ... Female = 2.6 - 6.0 mg/dL

>URIC ACID 24 HOURS (URINE) ... 250-750 mg/d

UROBILINOGEN 2 HOURS (URINE) ... 0.1 - 0.8 EU

UROBILINOGEN 24 HOURS (URINE) ... 0.5 - 4.0 EU

UROBILINOGEN (URINE) ... Less than 1.0 Ehrlich unit / 2 hours

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VITAMIN A (SERUM) ... 30-80 UG/dL

VITAMIN B1 (SERUM) ... 0-2 UG/dL

VITAMIN B2 (SERUM) ... 4-24 UG/dL

VITAMIN B6 (PLASMA) ... 5-30 UG/dL

VITAMIN B12 (SERUM) ... 100-700 pg/mL

VITAMIN C (PLASMA) ... 0.5-1.5 mg/dL

VITAMIN D3 (SERUM) ... 25-45 pg/mL

VITAMIN E (SERUM) ... 5-18 UG/mL

VITAMIN A (SERUM) ... 20-80 mcg/100 ml

VITAMIN B12 (SERUM) ... 180-900 picogram/ml

ZINC (SERUM) ... 70-150 UG/dL