### Sodium, serum

- **Expected Range:** 135 - 146 mmol/L
- **Units:** mmol/L

Sodium is a major electrolyte in the body. It helps muscles and the heart function properly. Severe vomiting, diarrhea or sweating can cause levels to drop. Dehydration can cause sodium levels to rise.

### Potassium, serum

- **Expected Range:** 3.5 - 5.3 mmol/L
- **Units:** mmol/L

Potassium is a principle electrolyte in the body. It plays an important role in nerve conduction and muscle function.

### Chloride, serum

- **Expected Range:** 98-110 mmol/L
- **Units:** mmol/L

Chloride is another major electrolyte in the body. It helps cells function properly.

### Urea Nitrogen

- **Expected Range:** 7-25 mg/dL
- **Units:** mg/dL

Blood urea nitrogen (BUN) is an end product of protein metabolism.

### Creatinine, serum

- **Expected Range:** 0.57-1.03 mg/dL
- **Units:** mg/dL

Creatinine is a metabolic product released from muscle tissue and excreted from the kidneys.

### Calcium, serum

- **Expected Range:** 8.6-10.2 mg/dL
- **Units:** mg/dL

Calcium performs numerous functions in all cells. It is especially important in the structure of bones and in nerves.

### Total Protein

- **Expected Range:** 6.2-8.3 g/dL
- **Units:** g/dL

Protein in the blood includes two major components, albumin and globulin.

### Albumin

- **Expected Range:** 3.6-5.1 g/dL
- **Units:** g/dL

Albumin is the largest portion of total blood protein.

### Globulin, Total

- **Expected Range:** 2.2-3.9 g/dL
- **Units:** g/dL

Globulin is a major component of blood proteins.

### A/G Ratio

- **Expected Range:** 1.0-2.1 ratio

The A/G ratio can be an indicator of some disease states.

### eGFR

- **Expected Range:** >60
- **Units:**

Tells how well the kidneys are working. If African American, multiply result by 1.21.

### Glucose

- **Expected Range:** 65-99 mg/dL
- **Units:** mg/dL

Glucose is the main source of energy for living organisms.

### AST

- **Expected Range:** 10-30 U/L
- **Units:** U/L

Aspartate aminotransferase (AST) is an enzyme found in the liver, heart and skeletal muscle.

### Bilirubin, Total

- **Expected Range:** 0.2-1.2 mg/dL
- **Units:** mg/dL

Bilirubin is a breakdown product of red blood cells. Abnormally high total bilirubin levels may occur in individuals with liver and gallbladder disease, and may cause jaundice.

### ALT

- **Expected Range:** 6-40 mg/dL
- **Units:** mg/dL

Alanine aminotransferase (ALT) is an enzyme found in the liver and rises with liver disease.

### Alkaline Phosphatase

- **Expected Range:** 33-115 U/L
- **Units:** U/L

Used mainly as an index of liver and bone disease when correlated with other clinical findings.

### Carbon Dioxide

- **Expected Range:** 19-30 mmol/L
- **Units:** mmol/L

Dilates smooth muscle. Regulates the acid:base balance in the body.

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