

Blood Lab "Normal" Results

Determination Your Result Expected Range Units Test Guide

Determination

Expected Range

Units

Glucose

70-115

(MG/DL)

Glucose is the main source of energy for living organisms.

Glucose rises with diabetes mellitus and with many other impairments.

Fructosamine

1.2-2.1

(MMOL/L)

Fructosamine measures average blood sugar concentration over

the past two to three weeks and may rise in uncontrolled diabetes.

BUN

5-25

(MG/DL)

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

BUN levels rise in kidney diseases.

Creatinine

0.5-1.5

(MG/DL)

Creatinine is a metabolic product released from muscle tissue and

excreted from the kidneys, and may rise in kidney disease.

Alkaline

Phosphatase

30-115

(U/L)

Alkaline phosphatase is an enzyme found primarily in the liver and

bones. Elevated levels may indicate the presence of bone or liver

disorders. The enzyme activity is also increased following fractures

and in growing children and pregnant women.

Total

Bilirubin

0.1-1.2

(MG/DL)

Bilirubin is a breakdown product of hemoglobin. Abnormally high

total bilirubin levels may occur in individuals with liver and

gallbladder disease, and may cause jaundice.

AST

0-41

(U/L)

Aspartate aminotransferase (AST) is an enzyme found in the liver

and in cardiac and skeletal muscle. AST may rise in liver, heart, and

muscle disorders, but also following strenuous, prolonged exercise.

ALT

0-45

(U/L)

Alanine aminotransferase (ALT) is an enzyme found in the liver and

rises with liver disease.

GGT

2-65

(U/L)

Gamma glutamyl transpeptidase (GGT) is a liver enzyme. It may rise

with alcohol consumption, certain medications, and liver diseases.

HAA

<10.5

(UMOL/L)

Hemoglobin-associated acetaldehyde (HAA) may rise with chronic

alcohol consumption.

Total Protein

6.0-8.5

(G/DL)

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

Protein levels fall in chronic disease, malnutrition and cancer.

Albumin 3.0-5.5 (G/DL)

Albumin is the largest portion of total blood protein. Decreased blood albumin may indicate many disorders, including poor nutrition and advanced liver disease.

Globulin 1.0-4.5 (G/DL)

Globulin is a major component of blood proteins. Abnormal levels, both elevated and decreased, may indicate infections, allergic states, immune disorders and other diseases.

Cholesterol 140-250 (MG/DL)

Cholesterol is one of the major lipids or fats in the body. High levels indicate an increased risk of heart disease, but can be controlled with diet, exercise and/or medications.

HDL Cholesterol 35-55 (MG/DL)

High Density Lipoprotein (HDL) is associated with protection against coronary artery disease. The quantity of HDL as well as the ratio of HDL to total cholesterol are important in determining one's risk of coronary artery disease. Markedly elevated HDL may also indicate heavy alcohol intake.

LDL 0-129 (MG/DL)

Elevations of **Low Density Lipoprotein (LDL)** Cholesterol are associated with an increased risk of heart disease.

Cholesterol/HDL <6.0

The ratio of total **Cholesterol to HDL-Cholesterol** is another indicator of heart disease risk. A ratio of 5.0 or less is associated with a lower risk of heart disease.

LDL/HDL <4.0

LDL/HDL Cholesterol Ratio is an indicator of heart disease risk. The lower the ratio, the lower the risk.

Triglycerides 62 0-150 (MG/DL)

Triglycerides are fats (lipids) that provide a reserve of energy. Increases in triglycerides may indicate heart disease risk. Triglycerides may rise with obesity, diabetes and alcohol consumption.

Serum HIV Non-reactive

HIV antibody testing detects infection with the virus that causes AIDS.

The test may not become positive until several weeks after exposure to the virus.

HEPATITIS LABORATORY RESULTS

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Hepatitis BsAg Negative

Hepatitis B surface antigen indicates infection with hepatitis B virus. Chronic infection may cause liver disease.

Hepatitis C Ab Negative

Hepatitis C antibody indicates prior infection with hepatitis C virus. A positive test may indicate either acute or chronic infection. Chronic infection may cause liver disease.

URINE LABORATORY RESULTS

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Cotinine Negative (MCG/ML)

Cotinine is the major byproduct of nicotine. Its presence indicates tobacco use.

Glucose Negative (GM%)

Glucose is not normally present in urine, but may occur in diabetes and other impairments.

Protein 0-30 (MG%)

Urinary protein elevations may indicate the presence of kidney disease, but levels vary with urine concentration.

Leukocyte Screen Negative

Leukocyte esterase is an enzyme in white blood cells. When present it may indicate infection of the kidney or urinary tract, including the bladder.

Hemoglobin Screen Negative

Hemoglobin in the urine may indicate kidney and/or urinary disease, but may also occur in normal conditions such as during menstruation.

Specific gravity 1.003-1.035

Specific gravity is used to measure urine concentration.

Creatinine 27.0-260.0 (MG/DL)

Creatinine is a metabolic product released from muscle tissue and excreted by the kidneys, and is used to measure urine concentration.

PLEASE NOTE: All expected range data is based on gender and age. This appraisal is an AWARENESS TOOL only. It is NOT diagnostic in nature, and is in NO WAY intended to contradict or replace the advice of your personal physician. When in doubt, it is ALWAYS best to seek professional consultation.