



405 Saint Johns Church Road, Suite 104
Camp Hill, Pennsylvania 17011

CHEMISTRY TESTS

Test Name	Synonyms	Panels	Clinical Significance
Alanine Aminotransferase	ALT, Glutamic-Pyruvic Transaminase, SGPT, GPT, Alanine Transaminase	Comprehensive Metabolic Panel (CMP), Liver Panel	This test is used to screen for liver damage and/or to help diagnose liver disease
Albumin	ALB	Comprehensive Metabolic Panel (CMP), Liver Panel, Renal Panel	This test is used to screen for and help diagnose liver disorders or kidney disease. It is sometimes used to evaluate nutritional status, especially in hospitalized patients.
Alkaline Phosphatase	ALP, Alk Phos, Alkp	Comprehensive Metabolic Panel (CMP), Liver Panel	This test is used to screen or monitor treatment for a liver or bone disorder
Amylase	Amy		This test is used to diagnose and monitor acute pancreatitis. It is also sometimes used to diagnose and monitor chronic pancreatitis or other pancreatic diseases.
Anion Gap		Basic Metabolic Panel (BMP), Comprehensive Metabolic Panel (CMP), Electrolyte Panel	This test is calculated using the results of an electrolyte panel. It reflects the difference between the positively charged ions and the negatively charged ions. An abnormal anion gap is non-specific, but can suggest certain kinds of metabolic or respiratory disorders or the presence of toxic substances.
Aspartate Amino Transferase	AST, Serum Glutamic-Oxaloacetic Transaminase, SGOT, GOT, Aspartate Transaminase	Comprehensive Metabolic Panel (CMP), Liver Panel	This test is used to screen for liver damage and/or to help diagnose liver disease
B12, Vitamin	Cobalamin		This test is used to help diagnose one cause of anemia or neuropathy, to evaluate nutritional status in some people, and/or to monitor the effectiveness of treatment for vitamin B12 or folate deficiency.
Bicarbonate	Total CO ₂ , TCO ₂ , Carbon Dioxide Content, CO ₂ Content, Bicarb, HCO ₃ ⁻	Basic Metabolic Panel (BMP), Comprehensive Metabolic Panel (CMP), Electrolyte Panel, Renal Panel	This test is used as part of an electrolyte panel to identify or monitor an electrolyte imbalance or acid-base (pH) imbalance
Bilirubin, Direct		Liver Panel	This test is used to screen for or monitor liver disorders or hemolytic anemia.

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Bilirubin, Total		Comprehensive Metabolic Panel (CMP), Liver Panel	This test is used to screen for or monitor liver disorders or hemolytic anemia.
Blood Urea Nitrogen	BUN, Urea Nitrogen	Basic Metabolic Panel (BMP), Comprehensive Metabolic Panel (CMP), Renal Panel	This test is used to evaluate the health of your kidneys, to help diagnose kidney disease, and/or to monitor the effectiveness of dialysis and other treatments related to kidney disease or damage
Calcium, Total	Ca	Basic Metabolic Panel (BMP), Comprehensive Metabolic Panel (CMP), Renal Panel	This test is used to screen for, diagnose, and monitor a range of medical conditions
Chloride	Cl	Basic Metabolic Panel (BMP), Comprehensive Metabolic Panel (CMP), Electrolyte Panel, Renal Panel	This test is used to determine if there is a problem with your body's electrolyte balance or acid-base (pH) balance and to monitor treatment. This test may also be used as part of a routine health checkup
Cholesterol, Total		Lipid Panel	This test is used to screen for risk of developing heart disease and/or to monitor the effectiveness of lipid-lowering therapy
Cortisol			This test is used to help diagnose Cushing syndrome or primary or secondary adrenal insufficiency (Addison disease), and/or to detect conditions affecting the pituitary or adrenal glands
C-Reactive Protein	CRP		This test is used to identify the presence of inflammation and to monitor response to treatment for an inflammatory disorder
Creatine Kinase	CK		This test is used to detect and monitor muscle damage and/or to help diagnose conditions associated with muscle damage
Creatinine, Serum	Creat, Blood Creatinine	Basic Metabolic Panel (BMP), Comprehensive Metabolic Panel (CMP), Renal Panel	This test is used to evaluate the health of your kidneys, to help diagnose kidney disease, and/or to monitor treatment for kidney disease
D, Vitamin	Calcifediol, Calcidiol, 25-hydroxycholecalciferol, 25-hydroxyvitamin D		This test is used to determine if you have vitamin D deficiency and/or if vitamin D supplementation is adequate

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Glucose, Estimated Average	eAG, Estimated Average Glucose		This test is calculated using the results of the Hemoglobin A1c to estimate your average blood glucose levels over the last 3 to 4 months. This value is used to help determine whether you are at an increased risk of developing diabetes, to help diagnose diabetes and prediabetes, and/or to help monitor diabetes and to aid in treatment decisions.
Glomerular Filtration Rate, Estimated	Estimated Glomerular Filtration Rate, eGFR, Calculated Glomerular Filtration Rate, cGFR		This test is used to assess kidney function and diagnose, stage, and monitor chronic kidney disease (CKD)
Ferritin			This test is used to determine your body's total iron storage capacity and to help diagnose iron deficiency or iron overload
Folate	Folic Acid, RBC Folate, Folacin, Vitamin B9		This test is used to help diagnose one cause of anemia or neuropathy, to evaluate nutritional status in some people, and/or to monitor the effectiveness of treatment for vitamin B12 or folate deficiency.
Gamma-Glutamyl Transferase	GGT, Gamma-Glutamyl Transpeptidase, GGTP, Gamma-GT, GTP		This test is used to evaluate for possible liver disease or bile duct disease, to differentiate between liver and bone disease as a cause of elevated alkaline phosphatase (ALP), and to sometimes screen for or monitor alcohol abuse
Glucose		Basic Metabolic Panel (BMP), Comprehensive Metabolic Panel (CMP), Renal Panel	This test is used to determine if your blood glucose level is within a healthy range, to screen for and diagnose diabetes and prediabetes, and to monitor for high blood glucose (hyperglycemia) or low blood glucose (hypoglycemia)
Hemoglobin A1c	A1c, HbA1c, Glycohemoglobin, Glycated Hemoglobin, Glycosylated Hemoglobin		This test is used to help determine whether you are at an increased risk of developing diabetes, to help diagnose diabetes and prediabetes, and/or to help monitor diabetes and to aid in treatment decisions.
High Density Lipoprotein	HDL	Lipid Panel	This test is used to assess your risk of developing heart disease
Iron, Total	Serum Iron, Serum Fe		This test, along with other iron tests, is used to determine your blood iron level, and to help diagnose iron-deficiency anemia or iron overload
Lactate Dehydrogenase	LDH, LD		This test is used to help detect a condition causing tissue damage, such as a blood or liver disease, and to monitor its progress, and to help stage, determine prognosis, and/or response to treatment of certain cancers

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Lipase	LPS		This test is used to diagnose and monitor acute pancreatitis. It is also sometimes used to diagnose and monitor chronic pancreatitis or other pancreatic diseases.
Low Density Lipoprotein, Calculated	LDL-C	Lipid Panel	This test is calculated using Total Cholesterol, HDL, and Triglycerides. This test is used to assess your risk of developing heart disease and to monitor the effectiveness of lipid-lowering therapy
Magnesium	Mg, Mag		This test is used to help determine the cause of abnormal levels of magnesium, calcium, and/or potassium
Phosphorus	P, PO4, Phosphate, Phos	Renal Panel	This test is used to aid in the diagnosis of conditions known to cause abnormally high or low levels of phosphorus
Potassium	K	Basic Metabolic Panel (BMP), Comprehensive Metabolic Panel (CMP), Electrolyte Panel, Renal Panel	This test is used to help evaluate electrolyte balance and to help determine the cause of and monitor treatment for illnesses associated with abnormal potassium levels in the body
Protein, Total	TP	Comprehensive Metabolic Panel (CMP), Liver Panel	This test is used as part of a general health checkup, to determine your nutritional status, or to help diagnose certain liver and kidney disorders, as well as other diseases
Sodium	Na	Basic Metabolic Panel (BMP), Comprehensive Metabolic Panel (CMP), Electrolyte Panel, Renal Panel	This test is used to help evaluate electrolyte balance and to help determine the cause of and monitor the treatment for illnesses associated with abnormal sodium levels in the body
T3, free	Triiodothyronine, FRT3	Thyroid Panel	This test is used to help evaluate thyroid gland function, to diagnose thyroid disease, including hyperthyroidism, and to monitor effectiveness of treatment of a thyroid disorder
T4, free	Thyroxine, FRT4	Thyroid Panel	This test is used to help evaluate thyroid gland function, to diagnose thyroid disease, including hyperthyroidism, and to monitor effectiveness of treatment of a thyroid disorder
Thyrotropin	TSH, Thyroid Stimulating Hormone	Thyroid Panel	This test is used to help diagnose thyroid disorders and monitor the treatment of hypothyroidism and hyperthyroidism
TIBC	Total Iron Binding Capacity		This test, along with other iron tests, is used to assess your body's ability to transport iron in the blood and to help diagnose iron-deficiency or iron overload

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Transferrin			This test, along with other iron tests, is used to assess your body's ability to transport iron in the blood and to help diagnose iron-deficiency or iron overload
Transferrin Saturation Percent			This test is calculated using Total Iron and TIBC. It, along with other iron tests, is used to assess your body's ability to transport iron in the blood and to help diagnose iron-deficiency or iron overload
Triglycerides	TRIG, TG	Lipid Panel	This test is used to assess your risk of developing heart disease and to monitor the effectiveness of lipid-lowering therapy
Uric Acid	UA, Serum Urate		This test is used to help diagnose the condition of gout and to monitor uric acid levels when undergoing chemotherapy or radiation treatment.