



BIOTECHNICAL SERVICES, INC.

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Supporting Biomedical Research Since 1985

Clinical Pathology Tests – Names, Acronyms, Units, and Conversion Factors

General Testing Category	Test Parameter	Acronym	Source	Units		Conversion to SI	Decimal Places	Referenced in Text as
				Conventional	SI	Multiply by		
Hematology								
Hematology	Prothrombin Time	PT		sec				
Hematology	Activated Partial Prothrombin Time	PTT		sec				
Hematology	Hematocrit	HCT	Whole blood	%			1	value
Hematology	Packed cell volume	PCV		%			1	volume
Hematology	Hemoglobin	Hb, HGB	Whole blood	g/dL	g/L	10.0	1	concentration
Hematology	Erythrocyte count (red blood cells)	RBX	Whole blood	10 ⁶ /μL	10 ¹² /L	10 ⁶	2	count
Hematology	Reticulocyte Count	RETIC	Whole blood	10 ⁶ /μL	10 ⁹ /L		2	count
Hematology	Nucleated erythrocytes	NRBC		10 ³ /μL			2	count
Hematology	Nucleated erythrocytes/1000 leukocytes	-		na			2	ratio
Hematology	Howell-Jolly bodies	HJBODY		% erythrocytes			1	count
Hematology	Mean cell or corpuscular volume	MCV		fL			1	volume
Hematology	Mean cell or corpuscular hemoglobin	MCH		pg			1	value
Hematology	Mean cell hemoglobin concentration	MCHC	Red blood cells	g/dL	mmol/L	0.6206	1	concentration
Hematology	Platelet count (mean platelet volume = MPV)	PLT	Whole blood	10 ³ /μL	10 ⁹ /L	10 ⁶	1	count
Hematology	Leukocytes (White blood cell count)	WBC		10 ³ /μL			2	count
Hematology	Segmented neutrophils	N-SEG		10 ³ /μL			2	count
Hematology	Bands	N-BAND		10 ³ /μL			2	count

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Hematology	Immature neutrophils	-		10 ³ /μL			3	count
Hematology	Metamyelocyte	-		10 ³ /μL			3	count
Hematology	Myelocyte	-		10 ³ /μL			3	count
Hematology	Promyelocyte	-		10 ³ /μL			3	count
Hematology	Lymphocytes	-		10 ³ /μL			2	count
Hematology	Activated lymphocytes	-		10 ³ /μL			2	count
Hematology	Atypical lymphocytes	-		10 ³ /μL			2	count
Hematology	Monocytes	MONO		10 ³ /μL			2	count
Hematology	Basophils	BASO		10 ³ /μL			3	count
Hematology	Eosinophils	EOSIN		10 ³ /μL			2	count
Hematology	Total bone marrow cellularity	-		10 ⁶ /femur			1	cellularity
Hematology	Methemoglobin	-		g/dL			2	concentration
Hematology	Heinze bodies	-		%			1	count
Hematology	Total erythrocytes/Heinz bodies	-		10 ⁶ /μL			3	ratio
Clinical Chemistry								
Clinical Chem.	Urea nitrogen (blood urea nitrogen)	UN, BUN	Serum	mg/dL	mmol/L	0.357	1	concentration
Clinical Chem.	Creatinine	-	Serum, plasma	mg/dL or (IU/L)	μmol/L	88.4	2	concentration
Clinical Chem.	Glucose	GLU	serum, plasma	mg/dL	mmol/L	0.05551	0	concentration
Clinical Chem.	Sodium	NA	Plasma	mEq/L	mmol/L	1.0	0	concentration
Clinical Chem.	Potassium	K	Plasma	mEq/L	mmol/L	1.0	1	concentration
Clinical Chem.	Chloride	CL	Serum, plasma	mEq/L	mmol/L	1.0	0	concentration

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Clinical Chem.	Bicarbonate	-	Plasma	IU/L or mEq/L	- mmol/L	- 1.0	1	concentration
Clinical Chem.	Oxygen, partial pressure	-	Arterial blood	mm Hg	mm Hg	1.0	0	concentration
Clinical Chem.	Carbon dioxide, partial pressure	-	Arterial blood	mm Hg	mm Hg	1.0	0	concentration
Clinical Chem.	Carbon dioxide, total	-		mEq/L			0	concentration
Clinical Chem.	Calcium	CA	Serum	mg/dL	mmol/L	0.25	2	concentration
Clinical Chem.	Phosphorus; (inorganic)	i Phos	Serum	mg/dL	mmol/L	0.3229	1	concentration
Clinical Chem.	protein, Total	TPRO	Serum	g/dL	g/L	10.0	1	concentration
Clinical Chem.	Albumin	ALB	Serum	g/dL	g/L	10	1	concentration
Clinical Chem.	Globulin	GLOB		g/dL			1	concentration
Clinical Chem.	Albumin/globulin ratio	A/G ratio		na			1	ratio
Clinical Chem.	Bilirubin, total	T BILI	Serum	mg/dL	µmol/L	17.1	1	concentration
Clinical Chem.	Bilirubin, direct	D BILI	Serum	mg/dL	µmol/L	17.1	2	concentration
Clinical Chem.	Cholesterol	CHOL	Serum	mg/dL	mmol/L	0.02586	0	concentration
Clinical Chem.	Sulfhemoglobin	-		g/dL			0	concentration
Clinical Chem.	Triglycerides	TRIG	Plasma, serum	mg/dL	mmol/L	0.01129	0	concentration
Clinical Chem.	Alanine aminotransferase	ALT/SGOT	Serum	IU/L	IU/L	1.0	0	activity
Clinical Chem.	Alkaline phosphatase	AP, Alk Phos	Serum	IU/L	IU/L	1.0	0	activity
Clinical Chem.	Amylase	-	Serum	IU/L	IU/L	1.0	0	activity
Clinical Chem.	Aspartate aminotransferase	AST/SGPT	Serum	IU/L	IU/L	1.0	0	activity
Clinical Chem.	Creatine kinase = creatine phosphokinase	CK=CPK	Serum	IU/L	IU/L	1.0	0	activity

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Clinical Chem.	Glutamate dehydrogenase	GDH		IU/L			1	activity
Clinical Chem.	Hydroxybutyrate dehydrogenase	HBD		IU/L			0	activity
Clinical Chem.	Lactate dehydrogenase	LDH	Serum	IU/L	IU/L	1.0	0	activity
Clinical Chem.	Ornithine carbamoyltransferase	OCT		IU/L			1	activity
Clinical Chem.	Sorbitol dehydrogenase	SDH		IU/L			0	activity
Clinical Chem.	β-Glucuronidase	-		IU/L			2	activity
Clinical Chem.	γ-Glutamyltransferase; (gamma)	GGT	Serum	IU/L	IU/L	1.0	1	activity
Clinical Chem.	5'-Nucleotidase	-		IU/L			0	activity
Clinical Chem.	N-acetyl-β-D-glucosaminidase	NAG		IU/L			0	activity
Clinical Chem.	Cholinesterase	-		IU/L			1	activity
Clinical Chem.	Serum osmolality	-		mmol			0	osmolality
Clinical Chem.	Osmolality ratio	-		na			1	ratio
Clinical Chem.	pH	-		na			2	pH
Clinical Chem.	Bile acids	-	Serum	μg/mL	μmol/L	2.448	1	concentration
Clinical Chem.	Bile salts	-	Serum	μg/mL	μmol/L	2.448	1	concentration
Clinical Chem.	Thyroid-stimulating hormone (thyrotropin)	TSH	Serum	ng/mL or μIU/mL	- μIU/L	1.0	2	concentration
Clinical Chem.	Triiodothyronine	T ₃		pg/dL			2	concentration
Clinical Chem.	Thyroxine	T ₄	Serum	nmol/L or μg/dL	- nmol/L	- 12.87	2	concentration
Urinalysis								
Urinalysis	Osmolality	-		mmol			0	osmolality
Urinalysis	Creatinine	-	Urine	mg/dL or mg/16 hr	μmol/L	88.4	2	concentration

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Urinalysis	Glucose	GLU		mg/dL or μg/mg creatinine			0	concentration
Urinalysis	Glucose/creatinine ratio	G/C		na			2	ratio
Urinalysis	Sodium	NA	Urine	mEq/L	mmol/L	1.0	0	concentration
Urinalysis	Potassium	K	Urine	mEq/L	mmol/L	1.0	0	concentration
Urinalysis	Chloride	CL	Urine	mEq/L	mmol/L	1.0	0	concentration
Urinalysis	Calcium	CA	Urine	mg/dL or mg/24 h	- mmol/d	- 0.025	2	concentration
Urinalysis	Phosphorus	PHOS	Urine	mg/dL or g/24 h	- mmol/d	- 32.29	1	concentration
Urinalysis	Thiocyanate	-		μg/mL			1	concentration
Urinalysis	Protein	-		mg/dL or μg/mg creatinine			0	concentration
Urinalysis	Protein/creatinine ratio	P/C		na			2	ratio
Urinalysis	Alkaline phosphatase	ALP		IU/L or IU/g creatinine			0	activity
Urinalysis	Aspartate aminotransferase	AST/SGPY		IU/L or IU/g creatinine			0	activity
Urinalysis	Glutamate dehydrogenase	-		IU/L			0	activity
Urinalysis	Lactate dehydrogenase	LDH		IU/L			0	activity
Urinalysis	β-Glucuronidase	-		IU/L			2	activity
Urinalysis	γ-Glutamyltransferase	GGT		mU/day or mU/m creatinine			0	activity

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Urinalysis	5'-Nucleotidase	-		IU/L			0	activity
Urinalysis	N-acetyl-β-D-glucosaminidase	-		IU/L (IU/g or mU/mg creatinine)			0	activity
Urinalysis	Ribonuclease	-		U/mL			2	activity
Urinalysis	Sorbitol dehydrogenase	SDH		IU/L			1	activity
Urinalysis	Volume (or conc.)	-		mL/16 hr			1	volume
Urinalysis	Specific gravity (or conc.)	SP GR		na			3	specific gravity
Urinalysis	pH	-	Urine	na	na	na	2	pH
Urinalysis	Urobilinogen	-		EU/dL or AU/dL			1	activity
Urinalysis	Bile acids	-	Urine	μmol/L	μmol/L	1.0	1	concentration
Urinalysis	Bile salts	-	Urine	μmol/L	μmol/L	1.0	1	concentration
Urinalysis	Urea nitrogen (urine urea nitrogen)	UN, UUN	Urine	mg/dL	mmol/L	0.357	0	concentration
Urinalysis	Erythrocytes/HPF (high-power field)	-		na			0	count
Urinalysis	Leukocytes/HPF	-		na			0	count
Urinalysis	Epithelial cells/HPF	-		na			0	count
Urinalysis	Bacteria/HPF	-		na			0	count
Urinalysis	Yeast/HPF	-		na			0	count
Urinalysis	Amorphous material/HPF	-		na			0	material
Urinalysis	Mucous/HPF	-		na			0	mucous
Urinalysis	Casts/LPF (low-power field)	-		na			0	count
Urinalysis	Crystals/HPF	-		na			0	count
Urinalysis	Sperm/HPF	-		na			0	count