

ROUTINE BLOOD TESTS REQUISITION GUIDE FOR MICROTAINER SAMPLES

Chemistry Panels	Preferred Microtainer	1 st Alternative	2 nd Alternative	Minimum Volume
Basic Metabolic Panel [BMP]	R	Y	G	0.6 mL blood (0.3 mL serum)
Comprehensive Metabolic Panel [CMP]	R	Y	G	1 mL blood (0.5 mL serum)
Electrolyte Panel [EP]	R	Y	G	0.6 mL blood (0.3 mL serum)
Hepatic Function Panel [HFP]	R	Y	G	0.6 mL blood (0.3 mL serum)
Lipid Panel [LIPID P]	R	Y	G	0.6 mL blood (0.3 mL serum)
Renal Function Panel [RFP]	R	Y	G	0.6 mL blood (0.3 mL serum)

Chemistry Tests	Preferred Microtainer	1 st Alternative	2 nd Alternative	Minimum Volume
Acetone [ACET]	R	Y	G	0.4 mL blood (0.2 mL serum)
Albumin [ALB]	R	Y	G	0.4 mL blood (0.2 mL serum)
Alkaline Phosphate [AP]	R	Y	G	0.4 mL blood (0.2 mL serum)
Ammonia [NH3] (ice)	L	G	NONE	0.4 mL blood (0.2 mL plasma)
Amylase [AMY]	R	Y	G	0.4 mL blood (0.2 mL serum)
Bilirubin, Total [TBIL]	R	Y	G	0.4 mL blood, 0.2 mL serum
Bilirubin, Total and Direct [FBIL]	R	Y	G	1 mL blood, 0.5 mL serum
Bilirubin, Neonatal [NBIL]	R	Y	G	0.4 mL blood, 0.2 mL serum
C3 Complement [C3]	R	Y	NONE	1 mL blood (0.5 mL serum)
C4 Complement [C4]	R	Y	NONE	1 mL blood (0.5 mL serum)
Calcium [CA]	R	Y	G	0.4 mL blood (0.2 mL serum)
Carbon Dioxide [CO2]	R	Y	G	0.4 mL blood (0.2 mL serum)
Chloride [CL]	R	Y	G	0.4 mL blood (0.2 mL serum)
Cholesterol, HDL [HDL]	R	Y	G	1 mL blood (0.5 mL serum)
Cholesterol, Total [CHOL]	R	Y	G	1 mL blood (0.4 mL serum)
Creatine Kinase, Total [CK]	R	Y	G	0.4 mL blood (0.2 mL serum)
Creatinine [CREAT]	R	Y	G	0.4 mL blood (0.2 mL serum)
C-Reactive Protein [CRP]	R	Y	NONE	0.4 mL blood (0.2 mL serum)
Ethanol [ETH]	R	Y	G	0.4 mL blood (0.2 mL serum)
Ferritin [FERRITIN]	R	Y	NONE	1 mL blood (0.5 mL serum)
Folate [FOLATE]	R	Y	NONE	1 mL blood (0.5 mL serum)
Gamma Glutamyl Transpeptidase [GGT]	R	Y	G	0.4 mL blood (0.2 mL serum)
Glucose [GLU]	R	Y	G	0.4 mL blood (0.2 mL serum)
Hemoglobin A1C [HGB A1C]	L	NONE	NONE	0.5 mL EDTA whole blood
Homocysteine [HMCYS]	L	NONE	NONE	1 mL EDTA whole blood,
Quantitative Immunoglobulins [QT IGS]	R	Y	NONE	2 mL blood (1 mL serum)
Immunoglobulin A [IGA]	R	Y	NONE	1 mL blood (0.5 mL serum)
Immunoglobulin G [IGG]	R	Y	NONE	1 mL blood (0.5 mL serum)
Immunoglobulin M [IGM]	R	Y	NONE	1 mL blood (0.5 mL serum)
Iron [FE]	R	Y	NONE	2 mL blood (1 mL serum)
Iron/Total Iron Binding Capacity [FE/TIBC]	R	Y	NONE	2 mL blood (1 mL serum)
Lactate, Arterial [LACT/A] (ice)	G	BG Syringe	NONE	0.3 mL Heparinized whole blood
Lactate, Venous [LACT/V] (ice)	G	BG Syringe	NONE	0.3 mL Heparinized whole blood
Lactate Dehydrogenase [LDH]	R	Y	G	0.4 mL blood (0.2 mL serum)
Lead [LEAD]	3.5mL Tan Top	L	NONE	0.5mL K2 EDTA whole blood
Lipase [LIP]	R	Y	G	0.4 mL blood (0.2 mL serum)
Magnesium [MG]	R	Y	G	0.4 mL blood (0.2 mL serum)
Osmolality [OSMO]	R	Y	NONE	0.2 mL blood (0.1 mL serum)
Phosphorus [PHOS]	R	Y	G	0.4 mL blood (0.2 mL serum)
Potassium [K]	R	Y	G	0.4 mL blood (0.2 mL serum)
Protein, Total [PROT]	R	Y	G	0.4 mL blood (0.2 mL serum)
Prealbumin [PREALB]	R	Y	NONE	1 mL blood (0.5 mL serum)
Prostate Specific Antigen, Diagnostic [PSA]	R	Y	NONE	1.0 mL blood (0.5 mL serum)
Rheumatoid Factor [RF]	R	R	NONE	1 mL blood (0.5 mL serum)
SGOT (ALT) [SGOT]	R	Y	G	0.4 mL blood (0.2 mL serum)
SGPT (AST) [SGPT]	R	Y	G	0.4 mL blood (0.2 mL serum)
Sodium [NA]	R	Y	G	0.4 mL blood (0.2 mL serum)

Triglycerides [TRIG]	R	Y	G	0.4 mL blood (0.2 mL serum)
Troponin I [TROP]	G	NONE	NONE	1 mL blood (0.5 mL plasma)
Urea Nitrogen [BUN]	R	Y	G	0.4 mL blood (0.2 mL serum)
Uric Acid [URIC]	R	Y	G	0.4 mL blood (0.2 mL serum)
Vitamin B12 [B12]	R	Y	NONE	1 mL blood (0.5 mL serum)

Hematology Panels	Microtainer Type	Minimum Volume
CBC [CBC]	L	250 µL EDTA whole blood
CBC W/ Auto Diff [CBC/D]	L	250 µL EDTA whole blood

Hematology Tests	Microtainer Type	Minimum Volume
Hemoglobin [HGB]	L	250 µL EDTA whole blood
Hematocrit [HCT]	L	250 µL EDTA whole blood
Platelets Only [PLT ONLY]	L	250 µL EDTA whole blood
Reticulocytes [RETIC]	L	250 µL EDTA whole blood
Sedimentation Rate [ESR]	DO NOT USE MICROTAINER	3.0 mL Lay Top (1 mL EDTA whole blood)
Sickle Cell [SICKLE SOL]	L	250 µL EDTA whole blood
WBC [WBC]	L	250 µL EDTA whole blood

Coagulation	Microtainer Type	Minimum Volume
PT/INR [PT]	B	1.6 mL Blue Top Tube
APTT [APTT]	B	1.6 mL Blue Top Tube
Thrombin Time [TT]	B	1.6 mL Blue Top Tube
Fibrinogen [FIB]	B	1.6 mL Blue Top Tube
D-Dimer [D-DIMER]	B	1.6 mL Blue Top Tube

Therapeutic Drug Monitoring	Microtainer Type	Minimum Volume
Amikacin [AMIK PRE, POST or RND]	R	1.0 mL blood (0.2 mL serum)
Carbamezapine [CARB]	R	1.0 mL blood (0.2 mL serum)
Cyclosporin [CSA]	L	0.5 mL EDTA whole blood
Digoxin [DIG]	R	1.0 mL blood (0.2 mL serum)
Dilantin [DIL]	R	1.0 mL blood (0.2 mL serum)
Gentamicin [GENT PRE, POST or RND]	R	1.0 mL blood (0.2 mL serum)
Lithium [LI]	R	1.0 mL blood (0.2 mL serum)
Methotrexate [MTRX]	R	2 mL blood (1.0 mL serum)
Phenobarbital [PHEN]	R	1.0 mL blood (0.2 mL serum)
Sirolimus [SIROLIMUS]	L	0.5 mL EDTA whole blood
Quinidine [QUIN]	R	1.0 mL blood (0.2 mL serum)
Tacrolimus [FK506]	L	0.5 mL EDTA whole blood
Theophylline [THEO]	R	1.0 mL blood (0.2 mL serum)
Tobramycin [TOBRA PRE, POST or RND]	R	1.0 mL blood (0.2 mL serum)
Valproic Acid [VALPRO]	R	1.0 mL blood (0.2 mL serum)
Vancomycin [VANCO PRE, POST or RND]	R	1.0 mL blood (0.2 mL serum)

Endocrine Tests	Preferred Microtainer	1 st Alternative	Minimum Volume
Cortisol [CORTISOL]	R	Y	1 mL blood (0.5 mL serum)
Human Chorionic Gonadotropin, Quant. [HCG QT]	R	Y	1 mL blood (0.5 mL serum)
Thyroid Profile [THYR PRO]	R	Y	2 mL blood (1 mL serum)
Total T4 [T4]	R	Y	1 mL blood (0.5 mL serum)
Free T4 [FREE T4]	R	Y	1 mL blood (0.5 mL serum)
TSH [TSH]	R	Y	1 mL blood (0.5 mL serum)

Tumor Marker	Preferred Microtainer	1 st Alternative	Minimum Volume
Alpha 1 Fetoprotein [AFP TUMOR]	R	Y	2 mL blood (1 mL serum)
Beta-HCG [BHCG]	R	Y	1 mL blood (0.5 mL serum)
CEA [CEA]	R	Y	1 mL blood (0.5 mL serum)

Immunology Tests	Preferred Microtainer	1st Alternative	Minimum Volume
Autoimmune Profile [AIP]	R	Y	5 mL blood (2.5 mL serum)
ANA [ANA SCRN]	R	Y	2 mL blood (1 mL serum)
MONOTEST/MONOSPOT [MONOTEST]	R	Y	2 mL blood (1 mL serum)
Rapid Plasma Reagin Test [RPR]	R	Y	2 mL blood (1 mL serum)

- R Red Top Microtainer
- Y Yellow Top Microtainer
- G Green Top Microtainer
- L Lavender Top Microtainer
- B 1.6 mL Blue Top Tube