

Assay	Method	Analytical Range <i>S/P: Serum/Plasma; U: Urine⁴</i>	Required Serum/Plasma Volume, μL
Calcium	Arzenazo III	S/P: 4-20 mg/dL, U: 0-40 mg/dL	1.5
Inorganic Phosphorus	Phosphomolybdate complex	S/P: 1-20 mg/dL; U: 0-350 mg/dL	1
Iron	TPTZ	S/P: 10-1000 $\mu\text{g/dL}$	6
Magnesium ²	Xylidyl Blue, Colourimetric	S/P: 0.5-8.0 mg/dL; U: 0.5-22.5 mg/dL	1
Sodium ¹	Indirect ISE	S/P: 50-200 mM; U: 10-400 mM	20
Potassium ¹	Indirect ISE	S/P: 1.0-10.0 mM; U: 2.0-200 mM	
Chloride ¹	Indirect ISE	S/P: 50-200 mM; U: 15-400 mM	
UIBC ²	Nitroso-PSAP	S/P: 55-550 $\mu\text{g/dL}$	5.5
Albumin	Bromocresol Green (BCG)	S/P: 1.5-6.0 g/dL	1
Bilirubin (Total)	DPD	S/P: 0-30 mg/dL	4
Bilirubin (Conjugated) ²	DPD	S/P: 0-10 mg/dL	2
Cholesterol (Total)	CHO-POD	S/P: 20-700 mg/dL	1.3
HDL Cholesterol	Enzymatic Inhibition	S/P: 2-180 mg/dL	1
LDL Cholesterol	Enzymatic Selective Protection	S/P: 0.26-10.3 mmol/L	1
Creatinine	Modified Jaffe, Kinetic	S/P: 0.06-25.0 mg/dL; U: 1-400 mg/dL	5.6
Ferritin ²	Latex Particle Immunoturbidimetric	S/P: 8-450 ng/mL	4
Fructosamines ²	Colorimetric method with NBT	S/P: 15-1000 μM	5
Glucose	Hexokinase	S/P: 10-800 mg/dL; U: 1-800 mg/dL	1
Glycerol ²	GPO-PAP	S/P: 14.5-2545 $\mu\text{mol/L}$	6
Lactate ²	Enzymatic	S/P: 2-120 mg/dL	1
Non-esterified Fatty Acids ²	Colorimetric	S/P: 0.072-2.24 mmol/L	3.5
Total Protein	S/P: Biuret; U: Pyrogallol Red Molybdate	S/P: 3-12 g/dL; U: 1-200 mg/dL	3
Transferrin ²	Immunoturbidimetric	S/P: 75-750 mg/dL	1.6
Triglycerides	GPO-POD	S/P: 10-1000 mg/dL	1.6
Urea	GLDH, Kinetic Assay	S/P: 5-300 mg/dL; U: 60-4500 mg/dL	1.7
Uric acid ²	Uricase PAP	S/P: 1.5-30 mg/dL; U: 2-400 mg/dL	3.8
Alpha-amylase ²	CNPG3	S/P: 10-2000 U/L; U: 5-4800 U/L	1
Alanine aminotransferase	IFCC (\pm PP activation)	S/P: 3-500 U/L	4
Alkaline phosphatase	IFCC AMP-Buffer	S/P: 5-1500 U/L	1.3
Aspartate aminotransferase	IFCC (\pm PP activation)	S/P: 3-1000 U/L	4
Creatine Kinase	IFCC-CK (NAC)	S/P: 10-2000 U/L	2.5
Hydroxybutyrate Dehydrogenase	GSCC	S/P: 40-1000 U/L	2
Lactate dehydrogenase	LDH (L-P) IFCC	S/P: 25-1200 U/L	1.8
Lipase ²	Colorimetric	S/P: 3-600 U/L	1
LIH	Direct Colorimetric		1.6

Note:

1. ISE measurements are simultaneously done from a single sample volume
2. Requests for these analytes must be given in advance as reagents might be needed to be ordered
3. Please allow 20 μL of dead volume for each sample tube
4. Kindly check the necessary guidelines for sample preparation, processing, and storage