

S.NO	PARAMETERS	METHODOLOGY	MEASURING RANGE	REFERENCE RANGE	Pack Insert
1	ADA	Colorimetric- Kinetic	1 to 200 U/L	Serum/Plasma: 0 – 15 U/L CSF:- Normal : 0 – 10 U/L Pleural Fluids:- Normal : 0 – 30 U/L	
2	Albumin	BCG	0.25 to 6.0 g/dL	Neonates- 2.5 -3.2 g/dL Adults- 3.5 -5.5 g/dL	
3	Alkaline Phosphatase	IFCC	3 to 1000 U/L	Women- 35-104 (U/L) Men- 40-129 (U/L)	
4	Amylase	CNPG3	3 to 2000 U/L	Serum/Plasma- Upto 130 U/L Urine- Up to 490 U/L	
5	ALT/SGPT	IFCC, Without P5P	6 to 800 U/L	Women- < 31 U/L Men- < 41 U/L	
6	AST/SGOT	IFCC, Without P5P	5 to 1000 U/L	Women- < 31 U/L Men- < 37 U/L	
7	ASO	Turbidimetry	20 to 1000 IU/mL	Adults < 200 IU/mL Children < 150 IU/mL	
8	Bilirubin Direct	Diazo with Sulphanilic Acid	0.1 to 30 mg/dL	Adults and children- <0.2 mg/dL	
9	Bilirubin Total	Diazo with Sulphanilic Acid	0.5 to 30 mg/dL	Neonates: 24hr.- <8.8 mg/dL 2nd day- 1.3-11.3 mg/dL 3rd day- 0.7-12.7 mg/dL 4th-6th day- 0.1-12.6 mg/dL Children (>1 month)- 0.2-1.0 mg/dL Adults- 0.1-1.2 mg/dL	
10	Calcium	Arsenazo III	0.25 to 15 mg/dL	In Serum/Plasma – 8.1 - 10.4 mg/dL In Urine –Woman < 250 mg/24h Men < 300 mg/24h	
11	Cholesterol	CHOD-PAP	5 to 1000 mg/dL	Desirable- ≤ 200 mg/dL Borderline high risk- 200 -240 mg/dL High risk- > 240 mg/dL	
12	Creatinine	Enzymatic	0.01 to 150 mg/dL	Men- 0.6 - 1.1 mg/dL Women- 0.5 - 0.9 mg/dL Urine 1 - 1.5 g / 24 hrs.	
13	CRP	Turbidimetry	2 to 200 mg/L	Adults < 5 mg/L, Newborn up to 3 weeks < 4.1 mg/L, Infants and children < 2.8 mg/L	
14	CK-NAC	UV DGKC	2 to 1000 U/L	Men- > 190 U/L Women- > 167 U/L	
15	CKMB	IFCC/ DGKC	5 to 2000 U/L	Normal Serum value- upto 24 U/L.	
16	FERRITIN	Latex Immuno-Turbidimetric method	3 to 600 ug/L	Infants to Children (upto 16 years): 7-150 µg/L Adults (Women): 15-150 µg/L, Adults (Men): 20-220 µg/L	
17	Glucose	GOD-POD	10 to 500 mg/dL	Serum/plasma- 70 – 115 mg/dL	
18	Gamma GT	IFCC	2 to 300 U/L	Women- 7-32 U/L Men- 11-50 U/L	
19	G6PDH	Enzymatic UV	50 to 6000 U/L	G6PDH activity (U/g Hb): 4.6 to 14.5 at 30°C / 6.4 to 20.5 at 37°C (U/1012 RBCs) : 146 to 416 at 30°C / 202 to 575 at 37°C	
20	HbA1C	Latex Immuno-Turbidimetric method	2 to 16 %	Normal Range: 4 % – 6 %	
21	HDL Cholesterol	Direct	2 to 400 mg/dL	Male- 30 – 60 mg/dL Female- 40 – 70 mg/dL	
22	IgE	Latex Immuno-Turbidimetric method	25 to 1000 IU/mL	Normal value upto < 198 IU/mL	
23	Iron	Ferrozine Method	2.5 to 1000 ug/dL	Women- 50 – 170 µg/dL Men- 60 – 175 µg/dL	
24	LDH	DGKC	5 to 2400 U/L	120-240 U/L at 25°C 160-320 U/L at 30°C 230-460 U/L at 37°C	
25	LDL Cholesterol	Direct	10 to 1000 mg/dL	Normal- <100 mg/dL Low Risk-100-129 mg/dL Borderline Risk- 130-160 mg/dL High Risk- >160 mg/dL	
26	LIPASE	Colorimetric Enzymatic	5 to 300 U/L	Adults: 13 - 60 U/L	
27	Magnesium	Xylidyl Blue	0.5 to 6 mg/dL	Serum or plasma: 1.6 –2.5 mg/dL, Urine: 24 –244 mg/24 h	
28	Microalbumin	Latex Immuno-Turbidimetric method	0.8 to 160 mg/L	Normal value upto 30 mg/24 hours in Urine	
29	Microprotein	Pyrogallol Red method	10 to 1800 mg/dL	Urine: 20 – 140 mg/24 hrs CSF : 100 – 450 mg/L	
30	Phosphorus	UV Molybdate	0.5 to 35 mg/dL	Serum or plasma: Children: 4.0 – 7.0 mg/dL Adults: 2.5 – 5.0 mg/dL Urine: Adults: 0.4 – 1.3 g /24 h	
31	RF	Turbidimetric method	5 to 180 IU/mL	Normal value upto 20 IU/mL	
32	Total Protein	Biuret	0.1 to 10 g/dL	Adults- 6.6 – 8.7 g/dL Neonates (1 day - 4 weeks)- 4.6 - 6.8 g/dL Infants (2-12 months)- 4.8 - 7.6 g/dL Children (over 12 months)- 6.0 - 8.0 g/dL	
33	Triglyceride	GPO	5 to 1000 mg/dL	Desirable- < 200 mg/dL Borderline high- 200-400 mg/dL Elevated- > 400 mg/dL	
34	UIBC	Colorimetric method	0.66 to 1000 ug/dL	TIBC: Adults- 250 - 425 µg/dL Children- 100 – 400 µg/dL	
35	Urea	Urease- GLDH	5 to 400 mg/dL	Serum/Plasma: Global- 17-43 mg/dL In Urine- 26-43 g/24h	
36	Uric Acid	Uricase	0.5 to 20 mg/dL	Adults: Female- 2.6 – 6.0 mg/dL Male-3.5 – 7.2 mg/dL	