

Directory of Services
Biochemistry Section
LSSTH Bhavnagar

SR NO	ROUTINE BIOCHEMICAL INVESTIGATION	TEST TIMING	NATURE OF SAMPLE	PREREQUISITE	COLLECTION BULB/VACUETTE (ANTICO/PLAN)	QTY.	METHOD	TURN AROUND TIME		LOD	Linearity	CV%	MU
								ROUTINE	URGENT				
1	FASTING BLOOD SUGAR*	24 Hours	Plasma	8-10 Hours without eating/drinking food/liquids besides water	Flouride Vacuette	2 ml	Hexokinase/G-6-PDH	6 hr.	2 hr	5mg/Dl	800 mg/Dl	2.13	4.1748
2	POSTPRANDIAL BLOOD SUGAR*	24 Hours	Plasma	2 hours after taking regular meal	Flouride Vacuette	2 ml	Hexokinase/G-6-PDH	6 hr.	2 hr	5mg/Dl	800 mg/Dl	2.13	4.1748
3	RANDOM BLOOD SUGAR*	24 Hours	Plasma/Urine	-	Flouride Vacuette	2 ml	Hexokinase/G-6-PDH	6 hr.	2 hr	5mg/Dl	800 mg/Dl	2.13	4.1748
4	UREA *	24 Hours	Serum/Urine	-	Gel/Red Vacuette	2 ml	Urease	6 hr.	2 hr	3 mg/Dl	128 mg/Dl	3.11	6.0956
5	CREATININE*	24 Hours	Serum	-	Gel/Red Vacuette	2 ml	Kinetic Alkaline Picrate	6 hr.	2 hr	0.05 mg/Dl	0.05 to 37mg/dl	2.45	4.802
6	BILLIRUBIN *	24 Hours	Serum	-	Gel/Red Vacuette	2 ml	Diazonium Salt	6 hr.	2 hr	0.05 mg/Dl	0.04 to 25mg/dL	4.76	9.3296
7	SGPT (ALT)*	24 Hours	Serum	-	Gel/Red Vacuette	2 ml	NADH (without P-5'-P)	6 hr.	2 hr	4 U/L	3271 U/L	4.06	7.9576
8	SGOT (AST)*	24 Hours	Serum	-	Gel/Red Vacuette	2 ml	NADH (without P-5'-P)	6 hr.	2 hr	4 U/L	4001 U/L	7.51	14.7196
9	ALKALINE PHOSPHATASE (ALP)*	24 Hours	Serum	-	Gel/Red Vacuette	2 ml	Para-nitrophenyl phosphate (p-NPP)	6 hr.	2 hr	7 U/L	4522 U/L	2.95	5.782
10	TOTAL PROTEIN*	24 Hours	Serum	-	Gel/Red Vacuette	2 ml	Biuret	6 hr.	2 hr	0.5 g/dl	18.4 g/dl	2.14	4.1944
11	ALBUMIN*	24 Hours	Serum	-	Gel/Red Vacuette	2 ml	Colorimetric (Bromocresol Green)	6 hr.	2 hr	0.3 g/dl	10.5 g/dl	2.12	4.1552
12	TOTAL CHOLESTEROL*	24 Hours	Serum	-	Gel/Red Vacuette	2 ml	Enzymatic	6 hr.	2 hr	2MG/DL	2 to 748 mg/dL	2.69	5.2724
13	TRIGLYCERIDE*	24 Hours	Serum	8-10 Hours without eating/drinking food/liquids besides water	Gel/Red Vacuette	2 ml	Glycerol Phosphate Oxidase	6 hr.	2 hr	5.0 mg/dL	1420 mg/dL	3.52	6.8992
14	HDL CHOLESTEROL*	24 Hours	Serum	-	Gel/Red Vacuette	2 ml	CELEATOR SELECTIVE DETERGENT	6 hr.	2 hr	0.3 mg/dL	180 mg/dL	3.67	7.1932
15	LDL CHOLESTEROL*	24 Hours	Serum	-	Gel/Red Vacuette	2 ml	Measured, Liquid Selective Detergent	6 hr.	2 hr	1 mg/dL	1 to 800 mg/dL	3.11	6.0956
16	LDH*	24 Hours	Serum	-	Gel/Red Vacuette	2 ml	Kinetic- Lactate to Pyruvate.	6 hr.	2 hr	6 U/L	24 to 4395 U/L	-	-
17	AMYLASE*	24 Hours	Serum	-	Gel/Red Vacuette	2 ml	Enzymatic/Colorimetric	6 hr.	2 hr	3 U/L	3300 U/L	4.37	8.5652
18	URIC ACID*	24 Hours	Serum	-	Gel/Red Vacuette	2 ml	URICASE	6 hr.	2 hr	0.2MG/DL	0.3 to 37.7 mg/dL	3.03	5.9388
19	(Na _a)*	24 Hours	Serum/Urine	-	Gel/Red Vacuette	2 ml	ISE INDIRECT METHOD	6 hr.	45 mins	100 mmol/L	100 to 200 mmol/L	1.14	2.2344
20	K*	24 Hours	Serum/Urine	-	Gel/Red Vacuette	2 ml	ISE INDIRECT METHOD	6 hr.	45 mins	1 mmol/L	1 to 10 mmol/L	2.12	4.1552
21	Cl*	24 Hours	Serum	-	Gel/Red Vacuette	2 ml	ISE INDIRECT METHOD	6 hr.	45 mins	-		2.77	5.4292
22	HbA1C	24 Hours	Whole Blood	-	Gel/Red Vacuette	2 ml	IMMUNOTURBIDIMETRIC ASSAY	6 hr.	2 hr	-		-	-
23	CHOLINESTERASE*	24 Hours	Serum	-	Gel/Red Vacuette	2 ml	DGKC Butyrylthiocholine 37°C1	6 hr.	2 hr	164 U/L	164 to 25,000 U/L	1.92	3.7632
24	FREE T3*	24 Hours	Serum	-	Gel/Red Vacuette	2 ml	CMIA METHOD	6 hr.	2 hr	1.07 pg/mL	1.07 to 4.6 pg/mL.	4.46	8.7416

25	FREE T4*	24 Hours	Serum	-	Gel/Red Vacuette	2 ml	CMIA METHOD	6 hr.	2 hr	0.4 ng/dL	0.4 to 5.00 ng/dL.	3.95	7.742
26	TSH*	24 Hours	Serum	-	Gel/Red Vacuette	2 ml	CMIA METHOD	6 hr.	2 hr	-	0.0038 µIU/mL to 100.0000 µIU/mL.	5.19	10.1724
27	TOTAL CALCIUM*	24 Hours	Serum	-	Gel/Red Vacuette	2 ml	Arsenazo III	6 hr.	2 hr	0.5 mg/dL	2.0 to 24.0 mg/dL	5.47	10.7212
28	MAGNESIUM*	24 Hours	Serum	-	Gel/Red Vacuette	2 ml	Enzymatic	6 hr.	2 hr	0.1 mg/dL	0.60 to 9.50 mg/dL	2.49	4.8804
29	SERUM OSMOLALITY*	24 Hours	Serum	-	Gel/Red Vacuette	2 ml	CALCULATED METHOD	6 hr.	2 hr	-		-	-
30	Urine Osmolality	24 Hours	Urine	-	Calculated		CALCULATED METHOD	6 hr.	2 hr				
31	LIPASE*	24 Hours	Serum	-	Gel/Red Vacuette	2 ml	QUINONE DYE	6 hr.	2 hr	1.6 U/L.	1,200 U/L	4.27	8.3692
32	FERRITIN*	24 Hours	Serum	-	Gel/Red Vacuette	2 ml	CMIA METHOD	6 hr.	2 hr	-			0
33	UIBC*	24 Hours	Serum	-	Gel/Red Vacuette	2 ml	Ferene	6 hr.	2 hr	-	25 to 500 µg/dL	6.69	13.1124
34	TIBC*	24 Hours	Serum	-	Gel/Red Vacuette	2 ml	CALCULATED	6 hr.	2 hr	-		6.69	13.1124
35	IRON*	24 Hours	Serum	-	Gel/Red Vacuette	2 ml	Ferene	6 hr.	2 hr	-	7 to 1143 µg/dL	2.66	5.2136
36	VLDL*	24 Hours	Serum	-	Gel/Red Vacuette	2 ml	Calculated	6 hr.	2 hr	-		-	
37	CK-MB	24 Hours	SERUM	-	Gel/Red Vacuette	2 ml	IFCC Method/Immunoinhibition	6 hr.	2 hr	3 U/L			
38	MICROPROTEIN IN CSF	24 Hours	Urine/ CSF	Send the sample before starting antimicrobial drugs	Gel/Red Vacuette	2 ml	benzethonium chloride	6 hr.	2 hr	-		-	
39	ARTERIAL BLOOD GAS ANALYSIS	24 Hours	Whole Blood	-	arinized syringe/vacu	2 ml	ISE METHOD	30 min	ithin 15 m	-		-	
40	24 HR URINE PROTEIN	24 Hours	Urine	-	Urine Container	2 ml	YROGALLOL RED, COLORIMETRIC	6 hr.	2 hr	-		-	
41	PLEURAL /ASCITIC FLUID SUGAR	24 Hours	ural/Ascitic Fl	-	vacuette/FluidConta	2 ml	ENZYMATIC COLORIMETRIC	6 hr.	2 hr	-		-	
42						2 ml	(GOD –POD) END POINT			-		-	
43	PLEURAL /ASCITIC FLUID PROTEI	24 Hours	ural/Ascitic Fl	-	vacuette/FluidConta	2 ml	IURET COLORIMETRIC END POIN	6 hr.	2 hr	-		-	
44	Troponin I	24 Hours		-		2 ml	CMIA METHOD	45 mins	45 mins	-		-	
45	PCT	24 Hours	Serum	-	Gel/Red Vacuette	2 ml	CMIA METHOD	6 hr.	2 hr	-		-	
46	Interleukin 6	24 Hours	Serum	-	Gel/Red Vacuette	2 ml	Up-converting Phosphor Technology	6 hr.	2 hr	-		5.58	10.9368
47	vitamin b12	24 Hours	Serum	-	Gel/Red Vacuette	2 ml	CMIA METHOD	6 hr.	2 hr	-			
48	BUN	24 Hours	Serum	-	-		Calculated	6 hr.	2 hr				
49	Total PSA	24 Hours	Serum	-	Gel/Red Vacuette	2 ml	CMIA METHOD	6 hr.	2 hr				
50	Beta HCG	24 Hours	Serum	-	Gel/Red Vacuette	2 ml	CMIA METHOD	6 hr.	2 hr				
51	CK Total	24 Hours	Serum	-	Gel/Red Vacuette	2 ml	CMIA METHOD	6 hr.	2 hr				
52	Prolactin	24 Hours	Serum	-	Gel/Red Vacuette	2 ml	CMIA METHOD	6 hr.	2 hr				
REMARKS : * NABL ACCREDITED													
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