

**Directory of Services, Biochemistry Section, LSSSTH Bhavnagar**

SR NO	ROUTINE BIOCHEMICAL INVESTIGATION	TEST TIMING	NATURE OF SAMPLE	PREREQUISITE/ADVISORY SERVICES	COLLECTION/BULB/VACUETTE (ANTICO/PLAN)	QTY.	METHOD	TURN AROUND TIME		Inhouse/ Outsourced	LOD	Linearity	CV%	MU	NABL Submitted CV	NABL ACCREDITED/NON-ACCREDITED
								ROUTINE	URGENT							
1	Fasting Blood Sugar	24 Hours	Plasma	8-10 Hours without taking food/liquids besides water	Flouride Vacuette	2 ml	Hexokinase/G-6-PDH	6 hr.	2 hr	Inhouse	5mg/dL	800 mg/Dl	5.33	10.45	3.75	Accredited
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	Inhouse	5mg/Dl	800 mg/Dl	5.33	10.45	3.75	Accredited
3	Random Blood Sugar	24 Hours	Plasma/ Urine	-	Flouride Vacuette	2 ml	Hexokinase/G-6-PDH	6 hr.	2 hr	Inhouse	5mg/Dl	800 mg/Dl	5.33	10.45	3.75	Accredited
4	Urea	24 Hours	Serum/Urine	-	Gel/Red Vacuette	Fill line marked on the tube	Urease	6 hr.	2 hr	Inhouse	3 mg/Dl	128 mg/Dl	6.07	11.90	3.50	Accredited
5	Creatinine	24 Hours	Serum	-	Gel/Red Vacuette	Fill line marked on the tube	Kinetic Alkaline Picrate	6 hr.	2 hr	Inhouse	0.05 mg/Dl	0.05 to 37mg/dl	4.48	8.78	4.80	Accredited
6	Billirubin	24 Hours	Serum	-	Gel/Red Vacuette	Fill line marked on the tube	Diazonium Salt	6 hr.	2 hr	Inhouse	0.05 mg/Dl	0.04 to 25mg/dL	7.01	13.74	9.50	Accredited
7	SGPT (ALT)	24 Hours	Serum	-	Gel/Red Vacuette	Fill line marked on the tube	NADH (without P-5'-P)	6 hr.	2 hr	Inhouse	4 U/L	3271 U/L	5.29	10.37	7.20	Accredited
8	SGOT (AST)	24 Hours	Serum	-	Gel/Red Vacuette	Fill line marked on the tube	NADH (without P-5'-P)	6 hr.	2 hr	Inhouse	4 U/L	4001 U/L	5.13	10.05	4.60	Accredited
9	Alkalaine Phosphate (ALP)	24 Hours	Serum	-	Gel/Red Vacuette	Fill line marked on the tube	Para-nitrophenyl phosphate (p-NPP)	6 hr.	2 hr	Inhouse	7 U/L	4522 U/L	4.84	9.49	3.59	Accredited
10	Total Protein	24 Hours	Serum	-	Gel/Red Vacuette	Fill line marked on the tube	Biuret	6 hr.	2 hr	Inhouse	0.5 g/dl	18.4 g/dl	4.23	8.29	3.30	Accredited
11	Albumin	24 Hours	Serum	-	Gel/Red Vacuette	Fill line marked on the tube	Colorimetric (Bromocresol Green)	6 hr.	2 hr	Inhouse	0.3 g/dl	10.5 g/dl	5.16	10.11	2.17	Accredited
12	Total Cholesterol	24 Hours	Serum	-	Gel/Red Vacuette	Fill line marked on the tube	Enzymatic	6 hr.	2 hr	Inhouse	2MG/DL	2 to 748 mg/dL	5.25	10.29	7.70	Accredited
13	Triglyceride	24 Hours	Serum	8-10 Hours without taking food/liquids besides water	Gel/Red Vacuette	Fill line marked on the tube	Glycerol Phosphate Oxidase	6 hr.	2 hr	Inhouse	5.0 mg/dL	1420 mg/dL	9.34	18.31	8.50	Accredited
14	HDL Cholesterol	24 Hours	Serum	-	Gel/Red Vacuette	Fill line marked on the tube	ACCELERATOR SELECTIVE DETERGENT	6 hr.	2 hr	Inhouse	0.3 mg/dL	180 mg/dL	14.88	29.16	6.50	Accredited
15	LDL Cholesterol	24 Hours	Serum	-	Gel/Red Vacuette	Fill line marked on the tube	Measured, Liquid Selective Detergent	6 hr.	2 hr	Inhouse	1 mg/dL	1 to 800 mg/dL	8.01	15.70	5.80	Accredited
16	LDH	24 Hours	Serum	-	Gel/Red Vacuette	Fill line marked on the tube	Kinetic- Lactate to Pyruvate.	6 hr.	2 hr	Inhouse	6 U/L	24 to 4395 U/L	5.36	10.51	5.00	Accredited
17	Amylase	24 Hours	Serum	-	Gel/Red Vacuette	Fill line marked on the tube	Enzymatic/Colorimetric	6 hr.	2 hr	Inhouse	3 U/L	3300 U/L	7.72	15.13	5.98	Accredited
18	Uric Acid	24 Hours	Serum	-	Gel/Red Vacuette	Fill line marked on the tube	URICASE	6 hr.	2 hr	Inhouse	0.2MG/DL	0.3 to 37.7 mg/dL	5.33	10.45	3.70	Accredited
19	Na	24 Hours	Serum/Urine	-	Gel/Red Vacuette	Fill line marked on the tube	ISE INDIRECT METHOD	6 hr.	45 mins	Inhouse	100 mmol/L	100 to 200 mmol/L	3.63	7.11	2.00	Accredited
20	K	24 Hours	Serum/Urine	Avoid using collecting the sample from the limb which is connected to IV infusion	Gel/Red Vacuette	Fill line marked on the tube	ISE INDIRECT METHOD	6 hr.	45 mins	Inhouse	1 mmol/L	1 to 10 mmol/L	3.95	7.74	2.50	Accredited
21	Na	24 Hours	Serum/Urine	Avoid using collecting the sample from the limb which is connected to IV infusion	Gel/Red Vacuette	Fill line marked on the tube	ISE DIRECT METHOD	6 hr.	45 mins	Inhouse	100 mmol/L	200 mmol/L	3.63	7.11		Accredited
22	K	24 Hours	Serum/Urine	Avoid using collecting the sample from the limb which is connected to IV infusion	Gel/Red Vacuette	Fill line marked on the tube	ISE DIRECT METHOD	6 hr.	45 mins	Inhouse	1 mmol/L	10 mmol/L	3.95	7.74		Accredited
23	Cl	24 Hours	Serum	Avoid using collecting the sample from the limb which is connected to IV infusion	Gel/Red Vacuette	Fill line marked on the tube	Ise Indirect Method	6 hr.	45 mins	Inhouse	50mmol/L	150mmol/L	1.53	3.00	1.40	Non-accredited
24	Cl	24 Hours	Serum	Avoid using collecting the sample from the limb which is connected to IV infusion	Gel/Red Vacuette	Fill line marked on the tube	Ise Direct Method	6 hr.	45 mins	Inhouse	50mmol/L	150mmol/L	1.53	3.00	1.40	Non-accredited
25	HbA1C	24 Hours	Whole Blood	-	Gel/Red Vacuette	2 ml	Immunoturbidimetric Assay	6 hr.	2 hr	Inhouse	-	-	-	-	-	Non-accredited
26	Cholinesterase	24 Hours	Serum	-	Gel/Red Vacuette	Fill line marked on the tube	DGKC Butyrylthiocholine 37°C1	6 hr.	2 hr	Inhouse	164 U/L	164 to 25,000 U/L	5.66	11.09	2.36	Accredited
27	Free T3	24 Hours	Serum	-	Gel/Red Vacuette	Fill line marked on the tube	Cmia Method	6 hr.	2 hr	Inhouse	1.07 pg/mL	1.07 to 4.6 pg/mL.	13.35	26.17	16.00	Accredited
28	Free T4	24 Hours	Serum	-	Gel/Red Vacuette	Fill line marked on the tube	Cmia Method	6 hr.	2 hr	Inhouse	0.4 ng/dL	0.4 to 5.00 ng/dL.	14.5	28.42	11.60	Accredited
29	TSH	24 Hours	Serum	After 8-10 hours of fasting (without taking any food/liquid) along with taking prescribed thyroid medication.	Gel/Red Vacuette	Fill line marked on the tube	CMIA METHOD	6 hr.	2 hr	Inhouse	-	0.0038 µIU/mL to 100.0000 µIU/mL.	13.64	26.73	10.60	Accredited
30	Total Calcium	24 Hours	Serum	Kindly mention whether sample is taken from IV line of RL/DNS.	Gel/Red Vacuette	Fill line marked on the tube	Arsenazo III	6 hr.	2 hr	Inhouse	0.5 mg/dL	2.0 to 24.0 mg/dL.	5.2	10.19	5.56	Accredited

31	Magnesium	24 Hours	Serum	Kindly mention whether sample is taken from IV line of RL/DNS.	Gel/Red Vacuette	Fill line marked on the tube	Enzymatic	6 hr.	2 hr	Inhouse	0.1 mg/dL	0.60 to 9.50 mg/dL	-	0.00	14.20	Accredited
32	Serum Osmolality	24 Hours	Serum	-	Gel/Red Vacuette	Fill line marked on the tube	CALCULATED METHOD	6 hr.	2 hr	Inhouse	-	-	0.00			Accredited
33	Urine Osmolality	24 Hours	Urine	-	Calculated	Fill line marked on the tube	CALCULATED METHOD	6 hr.	2 hr	Inhouse			-	0.00		Accredited
34	Lipase	24 Hours	Serum	-	Gel/Red Vacuette	Fill line marked on the tube	QUINONE DYE	6 hr.	2 hr	Inhouse	1.6 U/L.	1,200 U/L	6.84	13.41	4.20	Accredited
35	UIBC	24 Hours	Serum	-	Gel/Red Vacuette	Fill line marked on the tube	Ferene	6 hr.	2 hr	Inhouse	-	25 to 500 µg/dL	8.4	16.46	3.80	Accredited
36	TIBC	24 Hours	Serum	-	Gel/Red Vacuette	Fill line marked on the tube	CALCULATED	6 hr.	2 hr	Inhouse	-	-	-	0.00		Accredited
37	Iron	24 Hours	Serum	Kindly mention whether sample is taken before or after giving blood transfusion.	Gel/Red Vacuette	Fill line marked on the tube	Ferene	6 hr.	2 hr	Inhouse	-	7 to 1143 µg/dL	4.97	9.74	5.90	Accredited
38	VLDL	24 Hours	Serum	8-10 Hours without taking food/liquids besides water	Gel/Red Vacuette	Fill line marked on the tube	Calculated	6 hr.	2 hr	Inhouse	-	-	-	0.00		Accredited
39	CK-MB	24 Hours	SERUM	Avoid strenous exercise before collecting sample.	Gel/Red Vacuette	Fill line marked on the tube	IFCC Method/Immunoinhibition	6 hr.	2 hr	Inhouse	3 U/L	-	1.73	3.39		Non-accredited
40	Microprotein	24 Hours	CSF/ Other body fluid		Gel/Red Vacuette	Fill line marked on the tube	benzethonium chloride	6 hr.	2 hr	Inhouse	-	-	-	0.00		Non-accredited
41	Arterial Blood Gas Analysis	24 Hours	Whole Blood	-	Heparinized syringe/vacuette	Fill line marked on the tube	ISE METHOD	30 min	Within 15 min	Inhouse	-	-	-	0.00		Non-accredited
42	24 HR Urine Protein	24 Hours	Urine	Collect 24 hour urine and mention volume in requisition form.	Urine Container	Fill line marked on the tube	PYROGALLOL RED, COLORIMETRIC	6 hr.	2 hr	Inhouse	-	-	-	0.00		Non-accredited
43	Pleural /Ascitic Fluid Sugar	24 Hours	Pleural/Ascitic Fluid	-	Red vacuette/FluidContainer	Fill line marked on the tube	hexokinase/G-6-PDH	6 hr.	2 hr	Inhouse	-	-	-	0.00		Non-accredited
44						Fill line marked on the tube	(GOD –POD) END POINT			Inhouse	-	-	0.00			
45	Pleural /Ascitic Fluid Protein	24 Hours	Pleural/Ascitic Fluid	-	Red vacuette/FluidContainer	Fill line marked on the tube	BIURET COLORIMETRIC END POINT	6 hr.	2 hr	Inhouse	-	-	-	0.00		Non-accredited
46	Troponin I	24 Hours	Serum	Avoid strenous exercise before collecting sample.	Gel/Red Vacuette	Fill line marked on the tube	CMIA METHOD	45 mins	45 mins	Inhouse	3.2pg/ml	50 pg/ml	12.26	24.03		Non-accredited
47	vitamin b12	24 Hours	Serum	-	Gel/Red Vacuette	Fill line marked on the tube	CMIA METHOD	6 hr.	2 hr	Inhouse	-	-	7.3	14.31		Non-accredited
48	BUN	24 Hours	Serum	-	-	Fill line marked on the tube	Calculated	6 hr.	2 hr	Inhouse			-	0.00		Calculated
49	vitamin D	24 Hours	Serum	-	Gel/Red Vacuette	Fill line marked on the tube	CMIA METHOD	6 hr.	2 hr	Inhouse						Non-accredited

REMARKS : \* NABL ACCREDITED

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