

TEST PERFORMED AT KOS DIAGNOSTIC LAB, AMBALA CANTT.



	۲	<b>Dr. Vinay Chopra</b> 1D (Pathology & Microb Thairman & Consultant F		MD	m Chopra D (Pathology) nt Pathologist
NAME	: Mr. SHYAM L	AL			
AGE/ GENDER	: 44 YRS/MALE			PATIENT ID	: 1818667
COLLECTED BY	:			REG. NO./LAB NO.	: 012504050011
REFERRED BY	:			<b>REGISTRATION DATE</b>	: 05/Apr/2025 08:17 AM
BARCODE NO.	:01528376			COLLECTION DATE	:05/Apr/202508:18AM
CLIENT CODE.	: KOS DIAGNOS	TIC LAB		REPORTING DATE	: 05/Apr/2025 08:57AM
CLIENT ADDRESS	: 6349/1, NICH	OLSON ROAD, AMBAL	A CANTT		
Test Name		V	alue	Unit	Biological Reference interval
		SWASTHY.	A WEL	LNESS PANEL: 1	15.0
		COMPLE	ETE BLO	DOD COUNT (CBC)	
RED BLOOD CEL	LS (RBCS) COU	INT AND INDICES			
HAEMOGLOBIN (H	(B)		16.2	gm/dL	12.0 - 17.0
RED BLOOD CELL by HYDRO DYNAMIC F			4.28	Million	3.50 - 5.00
PACKED CELL VO	LUME (PCV)		49.1	%	40.0 - 54.0
by CALCULATED BY A MEAN CORPUSCU	LAR VOLUME (	MCV)	114.7 <sup>H</sup>	fL	80.0 - 100.0
by CALCULATED BY A MEAN CORPUSCU	LAR HAEMOGL	OBIN (MCH)	37.9 <sup>H</sup>	pg	27.0 - 34.0
	LAR HEMOGLO	BIN CONC. (MCHC)	33	g/dL	32.0 - 36.0
by CALCULATED BY A RED CELL DISTRI			14.3	%	11.00 - 16.00
by CALCULATED BY A	UTOMATED HEMAT	OLOGY ANALYZER			
RED CELL DISTRI			62.1 <sup>H</sup>	fL	35.0 - 56.0
MENTZERS INDEX			26.8	RATIO	) BETA THALASSEMIA TRAIT
by CALCULATED					13.0 IRON DEFICIENCY ANEMIA
					>13.0
GREEN & KING IN	DEX		116.13	RATIO	) BETA THALASSEMIA TRAIT
by CALCULATED					$\leq 74.1$
					IRON DEFICIENCY ANEMIA >= 74.1
WHITE BLOOD C	ELLS (WBCS)			/cmm	4000 - 11000
TOTAL LEUCOCY	TE COUNT (TLC		9600		
TOTAL LEUCOCY by flow cytometry	TE COUNT (TLC Y BY SF CUBE & MIC	CROSCOPY			0.00 - 20.00
WHITE BLOOD C TOTAL LEUCOCY" by flow cytometr NUCLEATED RED by AUTOMATED 6 PAI	TE COUNT (TLC Y BY SF CUBE & MIC BLOOD CELLS	(nRBCS)	9600 NIL		0.00 - 20.00





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	Dr. Vinay Chop MD (Pathology & M Chairman & Consul	icrobiology)	Dr. Yugam MD ( CEO & Consultant	Pathology)
NAME	: Mr. SHYAM LAL			
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Test Name		Value	Unit	<b>Biological Reference interval</b>
by CALCULATED BY A	AUTOMATED HEMATOLOGY ANALYZER			
DIFFERENTIAL L	EUCOCYTE COUNT (DLC)			
NEUTROPHILS		55	%	50 - 70
	Y BY SF CUBE & MICROSCOPY	24	0/	20 10
LYMPHOCYTES	Y BY SF CUBE & MICROSCOPY	24	%	20 - 40
EOSINOPHILS		15 <sup>H</sup>	%	1 - 6
	Y BY SF CUBE & MICROSCOPY			
MONOCYTES		6	%	2 - 12
BASOPHILS	Y BY SF CUBE & MICROSCOPY	0	%	0 - 1
	Y BY SF CUBE & MICROSCOPY	0	70	
ABSOLUTE LEUK	OCYTES (WBC) COUNT			
ABSOLUTE NEUTI	ROPHIL COUNT	5280	/cmm	2000 - 7500
-	Y BY SF CUBE & MICROSCOPY			
ABSOLUTE LYMPI	HOCYTE COUNT Y BY SF CUBE & MICROSCOPY	2304	/cmm	800 - 4900
ABSOLUTE EOSIN		1440 <sup>H</sup>	/cmm	40 - 440
	Y BY SF CUBE & MICROSCOPY			
ABSOLUTE MONO		576	/cmm	80 - 880
ABSOLUTE BASOF	Y BY SF CUBE & MICROSCOPY PHIL COUNT	0	/cmm	0 - 110
	Y BY SF CUBE & MICROSCOPY	0	, emm	0 110
PLATELETS AND	OTHER PLATELET PREDICTIV	E MARKERS.		
PLATELET COUN		144000 <sup>L</sup>	/cmm	150000 - 450000
-	FOCUSING, ELECTRICAL IMPEDENCE		24	0.10 0.25
PLATELETCRIT (F	PCT) FOCUSING, ELECTRICAL IMPEDENCE	0.17	%	0.10 - 0.36
MEAN PLATELET		12	fL	6.50 - 12.0
by HYDRO DYNAMIC F	OCUSING, ELECTRICAL IMPEDENCE			
	E CELL COUNT (P-LCC)	51000	/cmm	30000 - 90000
	FOCUSING, ELECTRICAL IMPEDENCE E CELL RATIO (P-LCR)	35.6	%	11.0 - 45.0
	FOCUSING, ELECTRICAL IMPEDENCE	55.0	70	11.0 - 45.0
	IBUTION WIDTH (PDW)	16.7	%	15.0 - 17.0





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	<b>Dr. Vinay Chopra</b> MD (Pathology & Microbiology) Chairman & Consultant Patholog		(Pathology)
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Test Name	Value	Unit	<b>Biological Reference interval</b>

by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE ADVICE

KINDLY CORRELATE CLINICALLY

NOTE: TEST CONDUCTED ON EDTA WHOLE BLOOD

RECHECKED.



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NAME AGE/ GENDER COLLECTED BY REFERRED BY BARCODE NO. CLIENT CODE. CLIENT ADDRESS	: <b>Mr. SHYAM LAL</b> : 44 YRS/MALE : : : 01528376 : KOS DIAGNOSTIC LAB : 6349/1, NICHOLSON RO	REG REG COI REI	FIENT ID G. NO./LAB NO. GISTRATION DATE LLECTION DATE PORTING DATE	: 1818667 <b>: 012504050011</b> : 05/Apr/2025 08:17 AM : 05/Apr/2025 08:18AM : 05/Apr/2025 12:55PM
Test Name		Value	Unit	Biological Reference interval
GLUCOSE FASTIN by GLUCOSE OXIDAS	G (F): PLASMA E - PEROXIDASE (GOD-POD)	175.39 <sup>H</sup>	mg/dL	NORMAL: < 100.0 PREDIABETIC: 100.0 - 125.0 DIABETIC: > 0R = 126.0
1. A fasting plasma g 2. A fasting plasma g test (after consumpt 3. A fasting plasma g	ion of 75 gms of glucose) is re	Il is considered normal. 25 mg/dl is considered as ecommended for all such g/dl is highly suggestive o	pătients. f diabetic state. A repe	prediabetic. A fasting and post-prandial blood at post-prandial is strongly recommended for all natory for diabetic state.

KOS Diagnostic Lab (A Unit of KOS Healthcare)





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Test Name		Value	Unit	Biological Reference interval
		LIPID PRO	<b>DFILE : BASIC</b>	
CHOLESTEROL TO by CHOLESTEROL OX		165.95	mg/dL	OPTIMAL: < 200.0 BORDERLINE HIGH: 200.0 - 239.0 HIGH CHOLESTEROL: > OR = 240.0
TRIGLYCERIDES: 5 by GLYCEROL PHOSP	SERUM PHATE OXIDASE (ENZYMATIC)	169.32 <sup>H</sup>	mg/dL	OPTIMAL: < 150.0 BORDERLINE HIGH: 150.0 - 199.0 HIGH: 200.0 - 499.0 VERY HIGH: > OR = 500.0
HDL CHOLESTERC by SELECTIVE INHIBIT	DL (DIRECT): SERUM ion	29.15 <sup>L</sup>	mg/dL	LOW HDL: < 30.0 BORDERLINE HIGH HDL: 30.0 60.0 HIGH HDL: > OR = 60.0
LDL CHOLESTERO		102.94	mg/dL	OPTIMAL: < 100.0 ABOVE OPTIMAL: 100.0 - 129.0 BORDERLINE HIGH: 130.0 - 159.0 HIGH: 160.0 - 189.0 VERY HIGH: > OR = 190.0
NON HDL CHOLES by CALCULATED, SPE		136.8 <sup>H</sup>	mg/dL	OPTIMAL: < 130.0 ABOVE OPTIMAL: 130.0 - 159.0 BORDERLINE HIGH: 160.0 - 189.0 HIGH: 190.0 - 219.0 VERY HIGH: > OR = 220.0
VLDL CHOLESTER by CALCULATED, SPE		33.86	mg/dL	0.00 - 45.00
TOTAL LIPIDS: SE	RUM	501.22	mg/dL	350.00 - 700.00
•	DL RATIO: SERUM	5.69 <sup>H</sup>	RATIO	LOW RISK: 3.30 - 4.40 AVERAGE RISK: 4.50 - 7.0

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CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AM	IBALA CANTT		
Test Name		Value	Unit	<b>Biological Reference interval</b>
LDL/HDL RATIO: S		3.53 <sup>H</sup>	RATIO	MODERATE RISK: 7.10 - 11.0 HIGH RISK: > 11.0 LOW RISK: 0.50 - 3.0 MODERATE RISK: 3.10 - 6.0 HIGH RISK: > 6.0
TRIGLYCERIDES/I by CALCULATED, SPE	HDL RATIO: SERUM	5.81 <sup>H</sup>	RATIO	3.00 - 5.00

## INTERPRETATION:

1.Measurements in the same patient can show physiological& analytical variations. Three serial samples 1 week apart are recommended for Total Cholesterol, Triglycerides, HDL & LDL Cholesterol. 2. As per NLA-2014 guidelines, all adults above the age of 20 years should be screened for lipid status. Selective screening of children above the age of 2 years with a family history of premature cardiovascular disease or those with at least one parent with high total cholesterol is recommended.

 Cow HDL levels are associated with increased risk for Atherosclerotic Cardiovascular disease (ASCVD) due to insufficient HDL being available to participate in reverse cholesterol transport, the process by which cholesterol is eliminated from peripheral tissues.
 NLA-2014 identifies Non HDL Cholesterol (an indicator of all atherogeniclipoproteins such as LDL, VLDL, IDL, Lpa, Chylomicron remnants) along with LDL-cholesterol as co- primary target for cholesterol lowering therapy. Note that major risk factors can modify treatment goals for LDL & Non HDL

5. Additional testing for Apolipoprotein B, hsCRP,Lp(a) & LP-PLA2 should be considered among patients with moderate risk for ASCVD for risk refinement





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: Mr. SHYAM LAL

: KOS DIAGNOSTIC LAB

: 6349/1, NICHOLSON ROAD, AMBALA CANTT

: 44 YRS/MALE

:01528376

:

:



Dr. Vinay Chopra Dr. Yugam Chopra MD (Pathology) MD (Pathology & Microbiology) Chairman & Consultant Pathologist **CEO & Consultant Pathologist PATIENT ID** :1818667 REG. NO./LAB NO. **REGISTRATION DATE** 

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:012504050011 :05/Apr/2025 08:17 AM :05/Apr/2025 08:18AM :05/Apr/2025 12:29PM

Test Name	Value	Unit	Biological Reference interval
LIVER FU	JNCTION TE	ST (COMPLETE)	
BILIRUBIN TOTAL: SERUM by DIAZOTIZATION, SPECTROPHOTOMETRY	0.62	mg/dL	INFANT: 0.20 - 8.00 ADULT: 0.00 - 1.20
BILIRUBIN DIRECT (CONJUGATED): SERUM by DIAZO MODIFIED, SPECTROPHOTOMETRY	0.15	mg/dL	0.00 - 0.40
BILIRUBIN INDIRECT (UNCONJUGATED): SERUM by CALCULATED, SPECTROPHOTOMETRY	0.47	mg/dL	0.10 - 1.00
SGOT/AST: SERUM by IFCC, WITHOUT PYRIDOXAL PHOSPHATE	22.9	U/L	7.00 - 45.00
SGPT/ALT: SERUM by IFCC, WITHOUT PYRIDOXAL PHOSPHATE	37.4	U/L	0.00 - 49.00
AST/ALT RATIO: SERUM by CALCULATED, SPECTROPHOTOMETRY	0.61	RATIO	0.00 - 46.00
ALKALINE PHOSPHATASE: SERUM by PARA NITROPHENYL PHOSPHATASE BY AMINO METHYL PROPANOL	162.54 <sup>H</sup>	U/L	40.0 - 130.0
GAMMA GLUTAMYL TRANSFERASE (GGT): SERUM by SZASZ, SPECTROPHTOMETRY	49.9	U/L	0.00 - 55.0
TOTAL PROTEINS: SERUM by BIURET, SPECTROPHOTOMETRY	7.12	gm/dL	6.20 - 8.00
ALBUMIN: SERUM by BROMOCRESOL GREEN	4.03	gm/dL	3.50 - 5.50
GLOBULIN: SERUM by CALCULATED, SPECTROPHOTOMETRY	3.09	gm/dL	2.30 - 3.50
A : G RATIO: SERUM by CALCULATED, SPECTROPHOTOMETRY	1.3	RATIO	1.00 - 2.00

**INTERPRETATION** 

NOTE:- To be correlated in individuals having SGOT and SGPT values higher than Normal Referance Range.

USE:- Differential diagnosis of diseases of hepatobiliary system and pancreas.

## **INCREASED:**

DRUG HEPATOTOXICITY	> 2
ALCOHOLIC HEPATITIS	> 2 (Highly Suggestive)
CIRRHOSIS	1.4 - 2.0
INTRAHEPATIC CHOLESTATIS	> 1.5





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## **BARCODE NO.** CLIENT CODE. **CLIENT ADDRESS**

NAME

AGE/ GENDER

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Test Name		Value Unit	Biological Reference interval
HEPATOCELLULAR C	ARCINOMA & CHRONIC HEPATITIS	> 1.3 (Slightly Ir	ncreased)

1. Acute Hepatitis due to virus, drugs, toxins (with AST increased 3 to 10 times upper limit of normal)

2. Extra Hepatic cholestatis: 0.8 (normal or slightly decreased).

PROGNOSTIC	SIGNIFICANCE:

NORMAL	< 0.65
GOOD PROGNOSTIC SIGN	0.3 - 0.6
POOR PROGNOSTIC SIGN	1.2 - 1.6

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Dr. Vinay Chopra MD (Pathology & Microbiology)

Chairman & Consultant Pathologist

EXCELLENCE IN HEALTHCARE & DIAGNOSTICS
Dr. Yugam Chopra MD (Pathology)

**CEO & Consultant Pathologist** 

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<b>KIDNEY</b>	FUNCTION TEST	(COMPLETE)	
IREA: SERUM by UREASE - GLUTAMATE DEHYDROGENASE (GLDH)	19.21	mg/dL	10.00 - 50.00
STATION       STATION STATION         'REATININE: SERUM         by ENZYMATIC, SPECTROPHOTOMETERY	1.16	mg/dL	0.40 - 1.40
LOOD UREA NITROGEN (BUN): SERUM by CALCULATED, SPECTROPHOTOMETRY	8.98	mg/dL	7.0 - 25.0
LOOD UREA NITROGEN (BUN)/CREATININE ATIO: SERUM by CALCULATED, SPECTROPHOTOMETRY	7.74 <sup>L</sup>	RATIO	10.0 - 20.0
REA/CREATININE RATIO: SERUM by calculated, spectrophotometry	16.56	RATIO	
RIC ACID: SERUM by URICASE - OXIDASE PEROXIDASE	5.23	mg/dL	3.60 - 7.70
ALCIUM: SERUM by ARSENAZO III, SPECTROPHOTOMETRY	9.19	mg/dL	8.50 - 10.60
IOSPHOROUS: SERUM y phosphomolybdate, spectrophotometry	3.59	mg/dL	2.30 - 4.70
<u>ECTROLYTES</u>			
DIUM: SERUM ISE (ION SELECTIVE ELECTRODE)	142.9	mmol/L	135.0 - 150.0
TASSIUM: SERUM / ISE (ION SELECTIVE ELECTRODE)	3.97	mmol/L	3.50 - 5.00
ILORIDE: SERUM y ISE (ION SELECTIVE ELECTRODE)	107.18	mmol/L	90.0 - 110.0
TIMATED GLOMERULAR FILTERATION RATE			
TIMATED GLOMERULAR FILTERATION RATE GFR): SERUM by CALCULATED	79.6		

INTERPRETATION:

To differentiate between pre- and post renal azotemia.

INCREASED RATIO (>20:1) WITH NORMAL CREATININE:

1. Prerenal azotemia (BUN rises without increase in creatinine) e.g. heart failure, salt depletion, dehydration, blood loss) due to decreased glomerular filtration rate.



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burns, surgery, cache 7. Urine reabsorptior 8. Reduced muscle n 9. Certain drugs (e.g. INCREASED RATIO (>2 1. Postrenal azotemi	action plus ke or production of exia, high fever). (e.g. ureter colost bass (subnormal cro tetracycline, gluco 20:1) WITH ELEVATI a (BUN rises dispro	omy) eatinine product corticoids) E <b>D CREATININE L</b> portionately mo	tion) EVELS:	on, GI bleeding, thyrotoxic ne) (e.g. obstructive uropa	osis, Cushing's syndrome, high protein diet, thy).	
4. High protein intake 5. Impaired renal fur 6. Excess protein inta burns, surgery, cache 7. Urine reabsorptior 8. Reduced muscle n 9. Certain drugs (e.g. INCREASED RATIO (>2	action plus ke or production of exia, high fever). (e.g. ureter colost tass (subnormal cro- tetracycline, gluco 20:1) WITH ELEVATI a (BUN rises dispro- superimposed on 10:1) WITH DECREA for a starvation. e. creased urea synth (urea rather than of imonemias (urea is of inappropiate ant 10:1) WITH INCREA upy (accelerates co- eleases muscle cre- who develop rena	omy) eatinine product porticoids) ED CREATININE L portionately mo renal disease. SED BUN : secatinine diffuse virtually absent idiuretic harmon SED CREATININE nversion of crea eatinine).	tion) EVELS: re than creatini es out of extrac t in blood). ne) due to tubui :	ne) (e.g. obstructive uropa ellular fluid). lar secretion of urea.		

CKD STAGE	DESCRIPTION	GFR ( mL/min/1.73m2 )	ASSOCIATED FINDINGS
G1	Normal kidney function	>90	No proteinuria
G2	Kidney damage with normal or high GFR	>90	Presence of Protein , Albumin or cast in urine
G3a	Mild decrease in GFR	60 -89	
G3b	Moderate decrease in GFR	30-59	
G4	Severe decrease in GFR	15-29	
G5	Kidney failure	<15	



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	<b>Dr. Vinay Chopra</b> MD (Pathology & Microbiology) Chairman & Consultant Patholo		(Pathology)
NAME	: Mr. SHYAM LAL		
AGE/ GENDER	: 44 YRS/MALE	PATIENT ID	: 1818667
COLLECTED BY	:	REG. NO./LAB NO.	: 012504050011
<b>REFERRED BY</b>	:	<b>REGISTRATION DATE</b>	: 05/Apr/2025 08:17 AM
BARCODE NO.	: 01528376	COLLECTION DATE	: 05/Apr/2025 08:18AM
CLIENT CODE.	: KOS DIAGNOSTIC LAB	<b>REPORTING DATE</b>	: 05/Apr/2025 12:09PM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AMBALA CAN	TT	
Test Name	Value	Unit	<b>Biological Reference interval</b>

COMMENTS:

Estimated Glomerular filtration rate (eGFR) is the sum of filtration rates in all functioning nephrons and so an estimation of the GFR provides a measure of functioning nephrons of the kidney.
 eGFR calculated using the 2009 CKD-EPI creatinine equation and GFR category reported as per KDIGO guideline 2012
 In patients, with eGFR creatinine between 45-59 ml/min/1.73 m2 (G3) and without any marker of Kidney damage, It is recommended to measure of CFD with the commended to measure

3. In patients, with eGFR cleaning between 45-59 minimit 1.73 m2 (G3) and without any marker of Kidney damage, it is recommended to measure eGFR with Cystatin C for confirmation of CKD
4. eGFR category G1 OR G2 does not fulfill the criteria for CKD, in the absence of evidence of Kidney Damage
5. In a suspected case of Acute Kidney Injury (AKI), measurement of eGFR should be done after 48-96 hours of any Intervention or procedure
6. eGFR calculated by Serum Creatinine may be less accurate due to certain factors like Race, Muscle Mass, Diet, Certain Drugs. In such cases, eGFR should be calculated using Serum Cystatin C
7. A decrease in eGFR implies either progressive renal disease, or a reversible process causing decreased nephron function (eg, severe dehydration).

ADVICE:

KDIGO guideline, 2012 recommends Chronic Kidney Disease (CKD) should be classified based on cause, eGFR category and Albuminuria (ACR) category. GFR & ACR category combined together reflect risk of progression and helps Clinician to identify the individual who are progressing at more rapid rate than anticipated



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NAME	: Mr. SHYAM LAL			t Pathologist
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Test Name		Value	Unit	Biological Reference interval
		AMYI	LASE	
AMYLASE - SERUN	1	52.6	IU/L	0 - 90

1.Amylase is produced in the Pancreas and most of the elevation in serum is due to increased rate of Amylase entry into the blood stream / decreased rate of clearance or both.

decreased rate of clearance or both.
2.Serum Amylase rises within 6 to 48 hours of onset of Acute pancreatitis in 80% of patients, but is not proportional to the severity of the disease.
3.Activity usually returns to normal in 3-5 days in patients with milder edematous form of the disease.
4.Values persisting longer than this period suggest continuing necrosis of pancreas or Pseudocyst formation.
5.Approximately 20% of patients with Pancreatitis have normal or near normal activity.
6.Hyperlipemic patients with Pancreatitis also show spuriously normal Amylase levels due to suppression of Amylase activity by triglyceride.
7.Low Amylase levels are seen in Chronic Pancreatitis, Congestive Heart failure, 2nd & 3rd trimesters of pregnancy, Gastrointestinal cancer & bare fractures.

KOS Diagnostic Lab (A Unit of KOS Healthcare)

bone fractures.



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TEST PERFORMED AT KOS DIAGNOSTIC LAB. AMBALA CANTT





	Dr. Vinay Cł MD (Pathology & Chairman & Cor		Dr. Yugan MD CEO & Consultant	(Pathology)
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Test Name		Value	Unit	<b>Biological Reference interval</b>
		LIPA	ASE	
LIPASE - SERUM		40.57	U/L	0 - 60

by METHYL RESORUFIN, SPECTROPHOTOMETRY

**INTERPRETATION** 

1. Pancreas is the major and primary source of serum lipase though lipases are also present in liver, stomach, intestine, WBC, fat cells and milk.

2. In acute pancreatitis, serum lipase becomes elevated at the same time as amylase and remains high for 7-10 days.

Increased lipase activity rarely lasts longer than 14 days.
 Prolonged increase suggests poor prognosis or presence of a cyst.
 The combined use of serum lipase and serum amylase is effective in ruling out acute pancreatitis.

## INCREASED LEVEL:

1. Acute & Chronic pancreatitis

 Obstruction of pancreatic duct
 Non pancreatic conditions like renal diseases, acute cholecystitis, intestinal obstruction, duodenal ulcer, alcoholism, diabetic ketoacidosis and following endoscopic retrograde cholangiopancreatography NOTE:

1. Elevations 2 to 50 times the upper reference have been reported. The increase in serum lipase is not necessarily proportional to the severity of the attack. Normalization is not necessarily a sign of resolution. ADVICE:

Concomitant testing of serum amylase and lipase is highly recommended to establish a diagnosis of pancreatic injury

End Of Report \*\*





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