



	Dr. Vinay Chopra MD (Pathology & Micr Chairman & Consultar	obiology)	Dr. Yugam C MD (Pa CEO & Consultant Pat	thology)
IAME	: Mr. MAYANK JAIN			
GE/ GENDER	: 35 YRS/MALE	РАТ	IENT ID :	1732257
COLLECTED BY	: SURJESH	REG	. NO./LAB NO. :	012501230008
REFERRED BY	:	REG	ISTRATION DATE :	23/Jan/2025 09:49 AM
BARCODE NO.	: 01524275			23/Jan/2025 10:09AM
CLIENT CODE.	: KOS DIAGNOSTIC LAB		ORTING DATE :	23/Jan/2025 10:31AM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AMB/	ALA CANTT		
Test Name		Value	Unit	Biological Reference interval
	SWAST	HYA WELLN	ESS PANEL: 1.5	
	COMP	LETE BLOOD	COUNT (CBC)	
ED BLOOD CELLS	<u>S (RBCS) COUNT AND INDICES</u>			
HAEMOGLOBIN (H	B)	14.7	gm/dL	12.0 - 17.0
by CALORIMETRIC RED BLOOD CELL ((RBC) COUNT	5.07 ^H	Millions/cm	m 3.50 - 5.00
	OCUŚING, ELECTRICAL IMPEDENCE		0/	10.0 51.0
PACKED CELL VOL	UME (PCV) NUTOMATED HEMATOLOGY ANALYZER	44.8	%	40.0 - 54.0
	AR VOLUME (MCV) NUTOMATED HEMATOLOGY ANALYZER	88.5	fL	80.0 - 100.0
AEAN CORPUSCUL	AR HAEMOGLOBIN (MCH)	29.1	pg	27.0 - 34.0
	AUTOMATED HEMATOLOGY ANALYZER AR HEMOGLOBIN CONC. (MCHC)	32.9	g/dL	32.0 - 36.0
by CALCULATED BY A	UTOMATED HEMATOLOGY ANALYZER		C	32.0 - 30.0
	UTION WIDTH (RDW-CV)	13.7	%	11.00 - 16.00
RED CELL DISTRIB	UTION WIDTH (RDW-SD)	45.4	fL	35.0 - 56.0
by CALCULATED BY A MENTZERS INDEX	UTOMATED HEMATOLOGY ANALYZER	17.46	RATIO	BETA THALASSEMIA TRAIT: <
		17.40	RA110	13.0
by CALCULATED				IRON DEFICIENCY ANEMIA:
by CALCULATED				
	DEX	24	RATIO	>13.0 BETA THALASSEMIA TRAIT:<;
	DEX	24	RATIO	BETA THALASSEMIA TRAIT:< 65.0
REEN & KING INI	DEX	24	RATIO	BETA THALASSEMIA TRAIT:< 65.0 IRON DEFICIENCY ANEMIA: >
GREEN & KING INI by calculated		24	RATIO	BETA THALASSEMIA TRAIT:<= 65.0
GREEN & KING INI by calculated WHITE BLOOD CE FOTAL LEUCOCYTH	lls (WBCS) E COUNT (TLC)	24 5120	RATIO /cmm	BETA THALASSEMIA TRAIT:< 65.0 IRON DEFICIENCY ANEMIA: >
GREEN & KING INI by Calculated NHITE BLOOD CE FOTAL LEUCOCYTH by FLOW CYTOMETR	LLS (WBCS) E COUNT (TLC) y by sf cube & microscopy	5120		BETA THALASSEMIA TRAIT:< 65.0 IRON DEFICIENCY ANEMIA: > 65.0 4000 - 11000
GREEN & KING INI by Calculated WHITE BLOOD CE TOTAL LEUCOCYTH by FLOW CYTOMETR NUCLEATED RED F by AUTOMATED 6 PAN	lls (WBCS) E COUNT (TLC)			BETA THALASSEMIA TRAIT:<= 65.0 IRON DEFICIENCY ANEMIA: > 65.0

KOS Diagnostic Lab (A Unit of KOS Healthcare)





DR.VINAY CHOPRA CONSULTANT PATHOLOGIST MBBS, MD (PATHOLOGY & MICROBIOLOGY) DR.YUGAM CHOPRA CONSULTANT PATHOLOGIST MBBS , MD (PATHOLOGY)

 KOS Central Lab: 6349/1, Nicholson Road, Ambala Cantt -133 001, Haryana

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 0171-2643898, +91 99910 43898
 care@koshealthcare.com

 www.koshealthcare.com
 www.koshealthcare.com



TEST PERFORMED AT KOS DIAGNOSTIC LAB, AMBALA CANTT







Dr. Vinay Chopra Dr. Yugam Chopra MD (Pathology & Microbiology) MD (Pathology) Chairman & Consultant Pathologist **CEO & Consultant Pathologist** NAME : Mr. MAYANK JAIN AGE/ GENDER : 35 YRS/MALE **PATIENT ID** :1732257 **COLLECTED BY** : SURJESH :012501230008 REG. NO./LAB NO. **REFERRED BY REGISTRATION DATE** : 23/Jan/2025 09:49 AM : **BARCODE NO.** :01524275 **COLLECTION DATE** : 23/Jan/2025 10:09AM CLIENT CODE. : KOS DIAGNOSTIC LAB **REPORTING DATE** : 23/Jan/2025 10:31AM **CLIENT ADDRESS** : 6349/1, NICHOLSON ROAD, AMBALA CANTT Test Name Value Unit **Biological Reference interval DIFFERENTIAL LEUCOCYTE COUNT (DLC)** NEUTROPHILS 55 % 50 - 70 by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY LYMPHOCYTES 34 % 20 - 40 by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY EOSINOPHILS 2 % 1 - 6 by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY MONOCYTES 9 % 2 - 12by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY BASOPHILS 0 % 0 - 1 by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY **ABSOLUTE LEUKOCYTES (WBC) COUNT** ABSOLUTE NEUTROPHIL COUNT 2816 2000 - 7500 /cmm by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY ABSOLUTE LYMPHOCYTE COUNT 1741 800 - 4900 /cmm by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY ABSOLUTE EOSINOPHIL COUNT 102 /cmm 40 - 440 by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY ABSOLUTE MONOCYTE COUNT 461 /cmm 80 - 880 by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY ABSOLUTE BASOPHIL COUNT 0 /cmm 0 - 110 by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY PLATELETS AND OTHER PLATELET PREDICTIVE MARKERS. PLATELET COUNT (PLT) 150000 - 450000 327000 /cmm by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE PLATELETCRIT (PCT) 0.33 % 0.10 - 0.36 by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE MEAN PLATELET VOLUME (MPV) 10 fL 6.50 - 12.0 by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE 30000 - 90000 PLATELET LARGE CELL COUNT (P-LCC) 90000 /cmm by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE % PLATELET LARGE CELL RATIO (P-LCR) 27.411.0 - 45.0 by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE PLATELET DISTRIBUTION WIDTH (PDW) 15.0 - 17.0 16.2% by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE

NOTE: TEST CONDUCTED ON EDTA WHOLE BLOOD



DR.VINAY CHOPRA CONSULTANT PATHOLOGIST MBBS, MD (PATHOLOGY & MICROBIOLOGY) DR.YUGAM CHOPRA CONSULTANT PATHOLOGIST MBBS , MD (PATHOLOGY)







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Test Name	Value	Unit	Biological Reference interval



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 care@koshealthcare.com
 www.koshealthcare.com







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CLIENT CODE.	: KOS DIAGNOSTIC LAB		REPORTING DATE	: 23/Jan/2025 02:37PM	
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AN	/IBALA CANTT			
Test Name		Value	Unit	Biological Reference interval	
GLYCOSYLATED HA	GLYCOS EMOGLOBIN (HbA1c):	SYLATED HA	AEMOGLOBIN (HBA1 %	C) 4.0 - 6.4	
WHOLE BLOOD	RMANCE LIQUID CHROMATOGRAPHY)				
ESTIMATED AVERA by HPLC (HIGH PERFOR INTERPRETATION:	GE PLASMA GLUCOSE RMANCE LIQUID CHROMATOGRAPHY)	108.28	mg/dL	60.00 - 140.00	
by HPLC (HIGH PERFO				60.00 - 140.00	
by HPLC (HIGH PERFOI INTERPRETATION:	RMANCE LIQUID CHROMATOGRAPHY) AS PER AMERICAN D REFERENCE GROUP	IABETES ASSOCI	IATION (ADA): LYCOSYLATED HEMOGLOGI		
by HPLC (HIGH PERFOI INTERPRETATION: Non dia	RMANCE LIQUID CHROMATOGRAPHY) AS PER AMERICAN D REFERENCE GROUP abetic Adults >= 18 years	IABETES ASSOCI	IATION (ADA): LYCOSYLATED HEMOGLOGI <5.7		
by HPLC (HIGH PERFO INTERPRETATION: Non dia A	RMANCE LIQUID CHROMATOGRAPHY) AS PER AMERICAN D REFERENCE GROUP abetic Adults >= 18 years t Risk (Prediabetes)	IABETES ASSOCI	IATION (ADA): LYCOSYLATED HEMOGLOGI <5.7 5.7 - 6.4		
by HPLC (HIGH PERFO INTERPRETATION: Non dia A	RMANCE LIQUID CHROMATOGRAPHY) AS PER AMERICAN D REFERENCE GROUP abetic Adults >= 18 years	IABETES ASSOCI	IATION (ADA): LYCOSYLATED HEMOGLOGI <5.7 5.7 - 6.4 >= 6.5	B (HBAIC) in %	
by HPLC (HIGH PERFO INTERPRETATION: Non dia A	RMANCE LIQUID CHROMATOGRAPHY) AS PER AMERICAN D REFERENCE GROUP abetic Adults >= 18 years t Risk (Prediabetes)	IABETES ASSOCI	IATION (ADA): LYCOSYLATED HEMOGLOGI <5.7 5.7 - 6.4 >= 6.5 Age > 19 Years	B (HBAIC) in %	
by HPLC (HIGH PERFO INTERPRETATION: Non dia A D	RMANCE LIQUID CHROMATOGRAPHY) AS PER AMERICAN DI REFERENCE GROUP abetic Adults >= 18 years t Risk (Prediabetes) iagnosing Diabetes	IABETES ASSOCI	IATION (ADA): LYCOSYLATED HEMOGLOGI <5.7 5.7 – 6.4 >= 6.5 Age > 19 Years s of Therapy:	< 7.0	
by HPLC (HIGH PERFOI INTERPRETATION: Non dia A D	RMANCE LIQUID CHROMATOGRAPHY) AS PER AMERICAN D REFERENCE GROUP abetic Adults >= 18 years t Risk (Prediabetes)	IABETES ASSOCI	IATION (ADA): LYCOSYLATED HEMOGLOGI <5.7 5.7 - 6.4 >= 6.5 Age > 19 Years	B (HBAIC) in % < 7.0 >8.0	

COMMENTS:

1.Glycosylated hemoglobin (HbA1c) test is three monthly monitoring done to assess compliace with therapeutic regimen in diabetic patients. 2.Since Hb1c reflects long term fluctuations in blood glucose concentration, a diabetic patient who has recently under good control may still have high concentration of HbAlc. Converse is true for a diabetic previously under good control but now poorly controlled.

3. Target goals of < 7.0 % may be beneficial in patients with short duration of diabetes, long life expectancy and no significant cardiovascular disease. In patients with significant complications of diabetes, limited life expectancy or extensive co-morbid conditions, targetting a goal of < 7.0% may not be appropriate.

4.High HbA1c (>9.0 -9.5 %) is strongly associated with risk of development and rapid progression of microvascular and nerve complications 5.Any condition that shorten RBC life span like acute blood loss, hemolytic anemia falsely lower HbA1c results.

6.HbA1c results from patients with HbSS,HbSC and HbD must be interpreted with caution, given the pathological processes including anemia, increased red cell turnover, and transfusion requirement that adversely impact HbA1c as a marker of long-term gycemic control.

7.Specimens from patients with polycythemia or post-splenctomy may exhibit increse in HbA1c values due to a somewhat longer life span of the red cells.



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	Dr. Vinay C MD (Pathology Chairman & Co		Dr. Yugan MD CEO & Consultan	(Pathology)
NAME	: Mr. MAYANK JAIN			
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CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD	, AMBALA CANTT		
Test Name		Value	Unit	Biological Reference interval
ERYTHROCYTE SE	ERYTH DIMENTATION RATE (ESR) GATION BY CAPILLARY PHOTOMET	ROCYTE SEDIMENT		ESR)

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		hopra & Microbiology) onsultant Pathologist	Dr. Yugam MD CEO & Consultant	(Pathology)
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CLIENT CODE.	: KOS DIAGNOSTIC LAB	R	EPORTING DATE	: 23/Jan/2025 12:16PM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD), AMBALA CANTT		
Test Name		Value	Unit	Biological Reference interval
	CLINI		RY/BIOCHEMIST ASTING (F)	'nY
GLUCOSE FASTING by GLUCOSE OXIDAS	e (F): PLASMA e - peroxidase (god-pod)	93.4	mg/dL	NORMAL: < 100.0 PREDIABETIC: 100.0 - 125.0 DIABETIC: > 0R = 126.0

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IN ACCRDANCE WITH AMERICAN DIABETES ASSOCIATION GUIDELINES: 1. A fasting plasma glucose level below 100 mg/dl is considered normal. 2. A fasting plasma glucose level between 100 - 125 mg/dl is considered as glucose intolerant or prediabetic. A fasting and post-prandial blood

test (after consumption of 75 gms of glucose) is recommended for all such patients. 3. A fasting plasma glucose level of above 125 mg/dl is highly suggestive of diabetic state. A repeat post-prandial is strongly recommended for all such patients. A fasting plasma glucose level in excess of 125 mg/dl on both occasions is confirmatory for diabetic state.



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CLIENT ADDRESS	: 6349/1, NICHOLSON ROAI	D, AMBALA CANTT		
Test Name		Value	Unit	Biological Reference interval
		LIPID PROF	ILE · BASIC	
CHOLESTEROL TOT	TAL · SERUM	210.94 ^H	mg/dL	OPTIMAL: < 200.0
by CHOLESTEROL OX		210.94	ing/ uL	BORDERLINE HIGH: 200.0 -
				239.0
				HIGH CHOLESTEROL: > OR = 240.0
TRIGLYCERIDES: S		130.94	mg/dL	OPTIMAL: < 150.0
by GLYCEROL PHOSP	HATE OXIDASE (ENZYMATIC)			BORDERLINE HIGH: 150.0 - 199.0
				HIGH: 200.0 - 499.0
				VERY HIGH: $> OR = 500.0$
HDL CHOLESTEROI by SELECTIVE INHIBIT	L (DIRECT): SERUM	43.55	mg/dL	LOW HDL: < 30.0 BORDERLINE HIGH HDL: 30.0
.,				60.0
			()7	HIGH HDL: $> OR = 60.0$
LDL CHOLESTEROI by CALCULATED, SPE		141.2 ^H	mg/dL	OPTIMAL: < 100.0 ABOVE OPTIMAL: 100.0 - 129.
				BORDERLINE HIGH: 130.0 -
				159.0 HIGH: 160.0 - 189.0
				VERY HIGH: > OR = 190.0
NON HDL CHOLEST		167.39 ^H	mg/dL	OPTIMAL: < 130.0
by CALCULATED, SPE	CTROPHOTOMETRY			ABOVE OPTIMAL: 130.0 - 159. BORDERLINE HIGH: 160.0 -
				189.0
				HIGH: 190.0 - 219.0
VLDL CHOLESTERC	DL: SERUM	26.19	mg/dL	VERY HIGH: > OR = 220.0 0.00 - 45.00
by CALCULATED, SPE	CTROPHOTOMETRY			
FOTAL LIPIDS: SER by calculated, spe		552.82	mg/dL	350.00 - 700.00
CHOLESTEROL/HD	L RATIO: SERUM	4.84 ^H	RATIO	LOW RISK: 3.30 - 4.40
by CALCULATED, SPE	CTROPHOTOMETRY			AVERAGE RISK: 4.50 - 7.0 MODERATE RISK: 7.10 - 11.0
				HIGH RISK: > 11.0



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CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, A	AMBALA CANTT		
Test Name		Value	Unit	Biological Reference interval
LDL/HDL RATIO: S		3.24 ^H	RATIO	LOW RISK: 0.50 - 3.0 MODERATE RISK: 3.10 - 6.0 HIGH RISK: > 6.0
TRIGLYCERIDES/H by CALCULATED, SPE	IDL RATIO: SERUM	3.01	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.

3. Low 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. 4. 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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Test Name		Value	Unit	Biological Reference interval
BILIRUBIN TOTAL		1.65 ^H	DN TEST (COMPLETE) mg/dL	INFANT: 0.20 - 8.00 ADULT: 0.00 - 1.20
BILIRUBIN DIRECT	C (CONJUGATED): SERUM	0.49 ^H	mg/dL	ADUL1: 0.00 - 1.20 0.00 - 0.40
	CT (UNCONJUGATED): SERUM	1.16 ^H	mg/dL	0.10 - 1.00
SGOT/AST: SERUM by IFCC, WITHOUT PY	RIDOXAL PHOSPHATE	21.32	U/L	7.00 - 45.00
SGPT/ALT: SERUM by IFCC, WITHOUT PY	RIDOXAL PHOSPHATE	28.6	U/L	0.00 - 49.00
AST/ALT RATIO: S	ERUM	0.75	RATIO	0.00 - 46.00
ALKALINE PHOSPI by PARA NITROPHEN PROPANOL	HATASE: SERUM YL PHOSPHATASE BY AMINO METHYL	65	U/L	40.0 - 150.0
GAMMA GLUTAMY	L TRANSFERASE (GGT): SERUM	29.1	U/L	0.00 - 55.0
TOTAL PROTEINS: by BIURET, SPECTRO		7.32	gm/dL	6.20 - 8.00
ALBUMIN: SERUM by BROMOCRESOL G		4.3	gm/dL	3.50 - 5.50
GLOBULIN: SERUN by CALCULATED, SPE	1	3.02	gm/dL	2.30 - 3.50
A : G RATIO: SERUN by CALCULATED, SPE	N	1.42	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:

> 2
> 2 (Highly Suggestive)
1.4 - 2.0
> 1.5
> 1.3 (Slightly Increased)



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CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AME	BALA CANTT	
Test Name		Value Unit	Biological Reference interval

DECREASED:

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).

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



DR.VINAY CHOPRA CONSULTANT PATHOLOGIST MBBS, MD (PATHOLOGY & MICROBIOLOGY) DR.YUGAM CHOPRA CONSULTANT PATHOLOGIST MBBS , MD (PATHOLOGY)

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 KOS Molecular Lab: IInd Floor, Parry Hotel, Staff Road, Opp. GPO, Ambala Cantt -133 001, Haryana

 0171-2643898, +91 99910 43898
 care@koshealthcare.com
 www.koshealthcare.com







0 9001.2008 CENT				
	Dr. Vinay Cho MD (Pathology & N Chairman & Consu		icrobiology) MD (Pathology)	
NAME	: Mr. MAYANK JAIN			
AGE/ GENDER	: 35 YRS/MALE		PATIENT ID	: 1732257
COLLECTED BY	: SURJESH	:	REG. NO./LAB NO.	: 012501230008
REFERRED BY	:		REGISTRATION DATE	: 23/Jan/2025 09:49 AM
BARCODE NO.	: 01524275		COLLECTION DATE	: 23/Jan/2025 10:09AM
CLIENT CODE.	: KOS DIAGNOSTIC LAB		REPORTING DATE	: 23/Jan/2025 01:04PM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, A	MBALA CANTT		
Test Name		Value	Unit	Biological Reference interval
	KIDN	EY FUNCTIO	N TEST (COMPLETE)
UREA: SERUM		28.23	mg/dL	10.00 - 50.00
by UREASE - GLUTAN CREATININE: SER	NATE DEHYDROGENASE (GLDH)	1.15	mg/dI	0.40 - 1.40
by ENZYMATIC, SPEC		1.15	mg/dL	0.40 - 1.40
	ROGEN (BUN): SERUM	13.19	mg/dL	7.0 - 25.0
	ectrophotometry ROGEN (BUN)/CREATININE	11.47	RATIO	10.0 - 20.0
RATIO: SERUM				
by CALCULATED, SPI	ECTROPHOTOMETRY F RATIO: SFRUM	24.55	RATIO	
by CALCULATED, SPI	ECTROPHOTOMETRY			
URIC ACID: SERUN by URICASE - OXIDAS		8.12 ^H	mg/dL	3.60 - 7.70
CALCIUM: SERUM	SE T ENOXIDAGE	10	mg/dL	8.50 - 10.60
-	ECTROPHOTOMETRY	2.04	ru a (dl	2 20 4 70
PHOSPHOROUS: SI by PHOSPHOMOLYBI	LKUM DATE, SPECTROPHOTOMETRY	3.94	mg/dL	2.30 - 4.70
ELECTROLYTES				
SODIUM: SERUM		139.6	mmol/L	135.0 - 150.0
by ISE (ION SELECTIN POTASSIUM: SERU		4.2	mmol/L	3.50 - 5.00
by ISE (ION SELECTIV	/E ELECTRODE)			
CHLORIDE: SERUN by ISE (ION SELECTIV		104.7	mmol/L	90.0 - 110.0
	MERULAR FILTERATION RATE	3		
ESTIMATED GLOM (eGFR): SERUM by CALCULATED	IERULAR FILTERATION RATE	85.1		
INTERPRETATION:				
To differentiate betw	een pre- and post renal azotemia.			

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.

2. Catabolic states with increased tissue breakdown.

3. GI haemorrhage.



DR.VINAY CHOPRA CONSULTANT PATHOLOGIST MBBS, MD (PATHOLOGY & MICROBIOLOGY)

DR.YUGAM CHOPRA CONSULTANT PATHOLOGIST MBBS , MD (PATHOLOGY)

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 www.koshealthcare.com







	Dr. Vinay Chopra MD (Pathology & Microbiology) Chairman & Consultant Pathologis		obiology)	Dr. Yugam Chopra MD (Pathology) st CEO & Consultant Pathologist				
JAME	: Mr. MAYAN	K JAIN						
AGE/ GENDER	: 35 YRS/MAL	Е	J	PATIENT ID	:	1732257		
COLLECTED BY	: SURJESH		J	REG. NO./LAB NO.	. :	01250123000	08	
REFERRED BY	•			REGISTRATION D		23/Jan/2025 09		
BARCODE NO.	: 01524275			COLLECTION DAT		23/Jan/2025 10		
CLIENT CODE.	: KOS DIAGNO			REPORTING DATE		23/Jan/2025 01		
CLIENT ADDRESS		HOLSON ROAD, AMBA		REFORTING DATI	ь .	23/ Jan/ 2023 01	1.041 M	
Test Name			Value	Uni	it	Biolog	jcal Referenc	e interva
9. Certain drugs (e.g. INCREASED RATIO (>2 1. Postrenal azotemia 2. Prerenal azotemia DECREASED RATIO (< 1. Acute tubular necr	tetracycline, glu 10:1) WITH ELEVA a (BUN rises disp superimposed c 10:1) WITH DECR osis.	TED CREATININE LEVE roportionately more t on renal disease.	LS:	ne) (e.g. obstructive	e uropathy)			
 P. Certain drugs (e.g., INCREASED RATIO (>2 1. Postrenal azotemia 2. Prerenal azotemia DECREASED RATIO (< 1. Acute tubular necr 2. Low protein diet and 3. Severe liver diseas 4. Other causes of decision 5. Repeated dialysis 6. Inherited hyperam 7. SIADH (syndrome of the second s	tetracycline, glu tetracycline, glu tetracycline, glu tetracycline, glu a (BUN rises disp superimposed of to:1) WITH DECR osis. and starvation. e. creased urea syl urea rather that monemias (urea of inappropiate a to:1) WITH INCRI py (accelerates eleases muscle of who develop re sis (acetoacetat creased BUN/cm apy (interferes v <u>JLAR FILTERATIO</u> Nor Ki n Mod	ATED CREATININE LEVE roportionately more t in renal disease. EASED BUN : ATED CREATININE LEVE EASED BUN : A creatinine diffuses o is virtually absent in antidiuretic harmone) EASED CREATININE: conversion of creatine creatinine). hal failure. e causes false increase eatinine ratio). with creatinine measure N RATE: DESCRIPTION mal kidney function dney damage with ormal or high GFR Id decrease in GFR_ erate decrease in GFR_	LS: han creatinin ut of extrace blood). due to tubula to creatinin e in creatinin rement).	ellular fluid). ar secretion of urea e). he with certain met L/min/1.73m2) >90 >90 60 -89 30-59	hodologies		<u>.</u>	n dehydra
9. Certain drugs (e.g. INCREASED RATIO (>2 1. Postrenal azotemia 2. Prerenal azotemia DECREASED RATIO (< 1. Acute tubular necr 2. Low protein diet an 3. Severe liver diseas 4. Other causes of de 5. Repeated dialysis 6. Inherited hyperam 7. SIADH (syndrome of 8. Pregnancy. DECREASED RATIO (< 1. Phenacimide thera 2. Rhabdomyolysis (r 3. Muscular patients INAPPROPIATE RATIO 1. Diabetic ketoacido should produce an in 2. Cephalosporin ther ESTIMATED GLOMERI G1 G2 G3a	tetracycline, glu tetracycline, glu tetracycline, glu tetracycline, glu a (BUN rises disp superimposed of to:1) WITH DECR osis. and starvation. e. creased urea syl urea rather that monemias (urea of inappropiate a to:1) WITH INCRI py (accelerates eleases muscle of who develop re sis (acetoacetat creased BUN/cm apy (interferes v <u>JLAR FILTERATIO</u> Nor Ki n Mod	ATED CREATININE LEVE roportionately more t on renal disease. EASED BUN : In creatinine diffuses on a is virtually absent in untidiuretic harmone) EASED CREATININE: conversion of creatine creatinine). nal failure. e causes false increase eatinine ratio). with creatinine measure N RATE: DESCRIPTION mal kidney function dney damage with prmal or high GFR Id decrease in GFR	LS: han creatinin ut of extrace blood). due to tubula to creatinin e in creatinin rement).	ellular fluid). ar secretion of urea e). he with certain met L/min/1.73m2) >90 >90 60 -89	hodologies	,resulting in nor ATED FINDINGS proteinuria nce of Protein ,	<u>.</u>	n dehydr.





DR.YUGAM CHOPRA CONSULTANT PATHOLOGIST MBBS , MD (PATHOLOGY)



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	Dr. Vinay Chopra MD (Pathology & Microl Chairman & Consultant	biology) MD	n Chopra D (Pathology) ht Pathologist
NAME	: Mr. MAYANK JAIN		
AGE/ GENDER	: 35 YRS/MALE	PATIENT ID	: 1732257
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CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AMBAI	LA CANTT	
Test Name		Value Unit	Biological Reference interval

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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DR.YUGAM CHOPRA CONSULTANT PATHOLOGIST MBBS, MD (PATHOLOGY)







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NAME	: Mr. MAYANI	K JAIN			
AGE/ GENDER	: 35 YRS/MAL	Ξ	PATI	ENT ID	: 1732257
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CLIENT ADDRESS	: 6349/1, NICI	HOLSON ROAD, AMBALA C	ANTT		
Test Name		Valu	ie	Unit	Biological Reference interval
		I	RON PRO	FILE	
IRON: SERUM	TROPHOTOMETRY	93.3	8	μg/dL	65.0 - 175.0
UNSATURATED IRC :SERUM	ON BINDING CA	APACITY (UIBC) 233	3.9	μg/dL	150.0 - 336.0
by FERROZINE, SPEC TOTAL IRON BIND SERUM by SPECTROPHOTOM	ING CAPACITY		7.7	μg/dL	230 - 430
%TRANSFERRIN SA	ATURATION: S		62	%	15.0 - 50.0
TRANSFERRIN: SEI	RUM	232	2.67	mg/dL	200.0 - 350.0
INTERPRETATION:-					
VARIAB		ANEMIA OF CHRONIC DIS	EASE IROI	N DEFICIENCY ANEMIA	THALASSEMIA α/6 TRAIT

VARIABLES	ANEMIA OF CHRONIC DISEASE	IRON DEFICIENCY ANEMIA	THALASSEMIA α/β TRAIT
SERUM IRON:	Normal to Reduced	Reduced	Normal
TOTAL IRON BINDING CAPACITY:	Decreased	Increased	Normal
% TRANSFERRIN SATURATION:	Decreased	Decreased < 12-15 %	Normal
SERUM FERRITIN:	Normal to Increased	Decreased	Normal or Increased
IDON.			

IRON:

1.Serum iron studies is recommended for differential diagnosis of microcytic hypochromic anemia.i.e iron deficiency anemia, zinc deficiency

anemia, anemia of chronic disease and thalassemia syndromes.
 It is essential to isolate iron deficiency anemia from Beta thalassemia syndromes because during iron replacement which is therapeutic for iron deficiency anemia, is severely contra-indicated in Thalassemia.
 TOTAL IRON BINDING CAPACITY (TIBC): It is a direct measure of protein transferrin which transports iron from the gut to storage sites in the bone marrow.

% TRANSFERRIN SATURATION:

1. Occurs in idiopathic hemochromatosis and transfusional hemosiderosis where no unsaturated iron binding capacity is available for iron mobilization. Similar condition is seen in congenital deficiency of transferrin.



DR.VINAY CHOPRA CONSULTANT PATHOLOGIST MBBS, MD (PATHOLOGY & MICROBIOLOGY)

DR.YUGAM CHOPRA CONSULTANT PATHOLOGIST MBBS, MD (PATHOLOGY)

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TEST PERFORMED AT KOS DIAGNOSTIC LAB. AMBALA CANTT





	MD (Pathology & Microbiology)		M	m Chopra D (Pathology) nt Pathologist
NAME	: Mr. MAYANK JAIN			
AGE/ GENDER	: 35 YRS/MALE		PATIENT ID	: 1732257
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BARCODE NO.	: 01524275		COLLECTION DATE	: 23/Jan/2025 10:09AM
CLIENT CODE.	: KOS DIAGNOSTIC LAB		REPORTING DATE	: 23/Jan/2025 12:27PM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROA	D, AMBALA CANT	Т	
Test Name		Value	Unit	Biological Reference interval
	1		CRINOLOGY CTION TEST: TOTAI	
TRIIODOTHYRONII	NE (T3): SERUM	0.968 DASSAY)	ng/mL	0.35 - 1.93
THYROXINE (T4): S	SERUM	6.48 DASSAY)	µgm/d	L 4.87 - 12.60
	TING HORMONE (TSH): SE		µIU/m	L 0.35 - 5.50
3rd GENERATION, ULT		,		
<u>INTERPRETATION</u> :				
day has influence on the triiodothyronine (T3).Fai	measured serum TSH concentrations	TSH stimulates the p	roduction and secretion of the	<i>D pm. The variation is of the order of 50%.Hence time of th</i> metabolically active hormones, thyroxine (T4)and ther underproduction (hypothyroidism) or
CLINICAL CONDITION	T3		T4	TSH
Primary Hypothyroidis			Reduced	Increased (Significantly)
Subclinical Hypothyroi	dism: Normal or L	ow Normal	Normal or Low Normal	High

LIMITATIONS:-

Primary Hyperthyroidism:

Subclinical Hyperthyroidism:

1. T3 and T4 circulates in reversibly bound form with Thyroid binding globulins (TBG), and to a lesser extent albumin and Thyroid binding Pre Albumin so conditions in which TBG and protein levels alter such as pregnancy, excess estrogens, androgens, anabolic steroids and glucocorticoids may falsely affect the T3 and T4 levels and may cause false thyroid values for thyroid function tests.

Increased

Normal or High Normal

Reduced (at times undetectable)

Reduced

2. Normal levels of T4 can also be seen in Hyperthyroid patients with :T3 Thyrotoxicosis, Decreased binding capacity due to hypoproteinemia or ingestion of certain drugs (e.g.: phenytoin , salicylates).

3. Serum T4 levels in neonates and infants are higher than values in the normal adult , due to the increased concentration of TBG in neonate serum.

4. TSH may be normal in central hypothyroidism , recent rapid correction of hyperthyroidism or hypothyroidism , pregnancy , phenytoin therapy.

TRIIODOTH	YRONINE (T3)	THYROXINE (T4)		THYROID STIMULATING HORMONE (TSF	
Age	Refferance Range (ng/mL)	Age	Refferance Range (µg/dL)	Age	Reference Range (μIU/mL)
0 - 7 Days	0.20 - 2.65	0 - 7 Days	5.90 - 18.58	0 - 7 Days	2.43 - 24.3
7 Days - 3 Months	0.36 - 2.59	7 Days - 3 Months	6.39 - 17.66	7 Days - 3 Months	0.58 - 11.00
3 - 6 Months	0.51 - 2.52	3 - 6 Months	6.75 - 17.04	3 Days – 6 Months	0.70 - 8.40
6 - 12 Months	0.74 - 2.40	6 - 12 Months	7.10 - 16.16	6 – 12 Months	0.70 - 7.00

Increased

Normal or High Normal





DR.VINAY CHOPRA CONSULTANT PATHOLOGIST MBBS, MD (PATHOLOGY & MICROBIOLOGY)

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Te of Norma	Value	TI*4	Diala si cal Dafaman an internal

Test Name			Value	Unit	t	Biological Reference interval
1 - 10 Years	0.92 - 2.28	1 - 10 Years	6.00 - 13.80	1 – 10 Years	0.60 - 5.50	
11- 19 Years	0.35 - 1.93	11 - 19 Years	4.87-13.20	11 – 19 Years	0.50 - 5.50	
> 20 years (Adults)	0.35 - 1.93	> 20 Years (Adults)	4.87 - 12.60	> 20 Years (Adults)	0.35-5.50	
	RECO	MMENDATIONS OF TSH L	EVELS DURING PRE	GNANCY (µIU/mL)		
	1st Trimester			0.10 - 2.50		
	2nd Trimester			0.20 - 3.00		
	3rd Trimester			0.30 - 4.10		

INCREASED TSH LEVELS:

1. Primary or untreated hypothyroidism may vary from 3 times to more than 100 times normal depending upon degree of hypofunction.

2. Hypothyroid patients receiving insufficient thyroid replacement therapy.

3. Hashimotos thyroiditis

4.DRUGS: Amphetamines, iodine containing agents & dopamine antagonist.

5.Neonatal period, increase in 1st 2-3 days of life due to post-natal surge

DECREASED TSH LEVELS:

1. Toxic multi-nodular goiter & Thyroiditis.

2. Over replacement of thyroid hormone in treatment of hypothyroidism.

3. Autonomously functioning Thyroid adenoma

4. Secondary pituitary or hypothalamic hypothyroidism

5. Acute psychiatric illness

6.Severe dehydration.

7.DRUGS: Glucocorticoids, Dopamine, Levodopa, T4 replacement therapy, Anti-thyroid drugs for thyrotoxicosis.

8.Pregnancy: 1st and 2nd Trimester





DR.VINAY CHOPRA CONSULTANT PATHOLOGIST MBBS, MD (PATHOLOGY & MICROBIOLOGY) DR.YUGAM CHOPRA CONSULTANT PATHOLOGIST MBBS , MD (PATHOLOGY)





TEST PERFORMED AT KOS DIAGNOSTIC LAB, AMBALA CANTT.



	M	r . Vinay Chopra D (Pathology & Microbiolo airman & Consultant Path	gy)		n Chopra (Pathology) Pathologist
AME	: Mr. MAYANK J	AIN			
GE/ GENDER	: 35 YRS/MALE		PATIENT ID		: 1732257
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IENT ADDRESS	: 6349/1, NICHC	LSON ROAD, AMBALA CA	ANTT		
est Name		Valu	e	Unit	Biological Reference interval
		VITAMIN D/2	VITAMINS 5 HYDROXY VII	TAMIN D	3
ITAMIN D (25-HY	DROXY VITAMIN				DEFICIENCE OF O
by CLIA (CHEMILUMINI				ng/mL	DEFICIENCY: < 20.0 INSUFFICIENCY: 20.0 - 30.0 SUFFICIENCY: 30.0 - 100.0 TOXICITY: > 100.0
Dy CLIA (CHEMILUMINI TERPRETATION:					INSUFFICIENCY: 20.0 - 30.0 SUFFICIENCY: 30.0 - 100.0
by CLIA (CHEMILUMINI I <u>TERPRETATION:</u> DEFIC INSUFF	ESCENCE IMMUNOAS	SAÝ) < 20 21 - 29			INSUFFICIENCY: 20.0 - 30.0 SUFFICIENCY: 30.0 - 100.0 TOXICITY: > 100.0 g/mL
by CLIA (CHEMILUMINI <u>NTERPRETATION:</u> DEFIC INSUFF PREFFERE INTOXI	ESCENCE IMMUNOAS	 < 20 21 - 29 30 - 100 > 100 		n	INSUFFICIENCY: 20.0 - 30.0 SUFFICIENCY: 30.0 - 100.0 TOXICITY: > 100.0

KOS Diagnostic Lab (A Unit of KOS Healthcare)





DR.VINAY CHOPRA CONSULTANT PATHOLOGIST MBBS, MD (PATHOLOGY & MICROBIOLOGY) DR.YUGAM CHOPRA CONSULTANT PATHOLOGIST MBBS , MD (PATHOLOGY)







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IAME	: Mr. MAYANK JAIN			
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			UKTING DATE	. 23/ Jail/ 2023 12.28PM
LIENT ADDRESS	: 6349/1, NICHOLSON ROAD,	, AMBALA CANTT		
Fest Name		Value	Unit	Biological Reference interval
NTERPRETATION:-				
	SED VITAMIN B12		DECREASED VITAMIN	N B12
1.Ingestion of Vitar	min C	1.Pregnancy		
1.Ingestion of Vitar 2.Ingestion of Estro	nin C	2.DRUGS:Aspi	rin, Anti-convulsants	
1.Ingestion of Vitar 2.Ingestion of Estro 3.Ingestion of Vitan	min C ogen nin A	2.DRUGS:Aspi 3.Ethanol Iges	rin, Anti-convulsants stion	
1.Ingestion of Vitar 2.Ingestion of Estro 3.Ingestion of Vitan 4.Hepatocellular in	min C ogen min A njury	2.DRUGS:Aspi 3.Ethanol Iges 4. Contracepti	rin, Anti-convulsants stion ve Harmones	
1.Ingestion of Vitar 2.Ingestion of Estro 3.Ingestion of Vitan 4.Hepatocellular in 5.Myeloproliferativ 6.Uremia Vitamin B12 (coba	min C ogen min A njury	2.DRUGS:Aspi 3.Ethanol Iges 4. Contracepti 5.Haemodialy 6. Multiple M poiesis and normal neur	rin, Anti-convulsants stion ve Harmones vsis yeloma onal function.	, Colchicine





V DR.YUGAM CHOPRA CONSULTANT PATHOLOGIST MBBS, MD (PATHOLOGY)



TEST PERFORMED AT KOS DIAGNOSTIC LAB, AMBALA CANTT.





	Dr. Vinay Ch e MD (Pathology & Chairman & Cons	Microbiology)	Dr. Yugan MD CEO & Consultant	(Pathology)
NAME	: Mr. MAYANK JAIN			
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CLIENT CODE.	: KOS DIAGNOSTIC LAB		FING DATE	: 23/Jan/2025 10:26AM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, A	AMBALA CANTT		
Test Name		Value	Unit	Biological Reference interval
		CLINICAL PATH	OLOGY	
	URINE RO	UTINE & MICROSCO	OPIC EXAMIN	ATION
PHYSICAL EXAMIN	NATION			
QUANTITY RECIEV		10	ml	
COLOUR	TANCE SPECTROPHOTOMETRY	AMBER YELLOW		PALE YELLOW
TRANSPARANCY		CLEAR		CLEAR
by DIP STICK/REFLEC SPECIFIC GRAVITY	TANCE SPECTROPHOTOMETRY	1.01		1.002 - 1.030
by DIP STICK/REFLEC	TANCE SPECTROPHOTOMETRY	1.01		1.002 1.000
CHEMICAL EXAMI	<u>NATION</u>			
REACTION by DIP STICK/REFLEC	TANCE SPECTROPHOTOMETRY	ACIDIC		
PROTEIN		Negative		NEGATIVE (-ve)
SUGAR	TANCE SPECTROPHOTOMETRY	Negative		NEGATIVE (-ve)
by DIP STICK/REFLEC	TANCE SPECTROPHOTOMETRY			
pH by DIP STICK/REFLEC	TANCE SPECTROPHOTOMETRY	<=5.0		5.0 - 7.5
BILIRUBIN		Negative		NEGATIVE (-ve)
NITRITE	TANCE SPECTROPHOTOMETRY	Negative		NEGATIVE (-ve)
by DIP STICK/REFLEC	TANCE SPECTROPHOTOMETRY.	Normal	EU/dL	0.2 - 1.0
	TANCE SPECTROPHOTOMETRY	Normai	EU/UL	0.2 - 1.0
KETONE BODIES	TANCE SPECTROPHOTOMETRY	Negative		NEGATIVE (-ve)
BLOOD		Negative		NEGATIVE (-ve)
by DIP STICK/REFLEC ASCORBIC ACID	TANCE SPECTROPHOTOMETRY	NEGATIVE (-ve)		NEGATIVE (-ve)
by DIP STICK/REFLEC	TANCE SPECTROPHOTOMETRY	11201117L (-VC)		
MICROSCOPIC EXA				
RED BLOOD CELLS	(RBUS)	NEGATIVE (-ve)	/HPF	0 - 3



DR.YUGAM CHOPRA CONSULTANT PATHOLOGIST MBBS , MD (PATHOLOGY)

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 KOS Molecular Lab: IInd Floor, Parry Hotel, Staff Road, Opp. GPO, Ambala Cantt -133 001, Haryana

 0171-2643898, +91 99910 43898
 care@koshealthcare.com

 www.koshealthcare.com



TEST PERFORMED AT KOS DIAGNOSTIC LAB, AMBALA CANTT.







Dr. Vinay Chopra MD (Pathology & Microbiology) Chairman & Consultant Pathologist Dr. Yugam Chopra MD (Pathology) CEO & Consultant Pathologist

NAME	: Mr. MAYANK JAIN		
AGE/ GENDER	: 35 YRS/MALE	PATIENT ID	: 1732257
COLLECTED BY	: SURJESH	REG. NO./LAB NO.	: 012501230008
REFERRED BY	:	REGISTRATION DATE	: 23/Jan/2025 09:49 AM
BARCODE NO.	: 01524275	COLLECTION DATE	: 23/Jan/2025 10:09AM
CLIENT CODE.	: KOS DIAGNOSTIC LAB	REPORTING DATE	: 23/Jan/2025 10:26AM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AMBALA C	CANTT	
Test Name	Valu	ıe Unit	Biological Reference interval

Test Name	Value	Unit	Biological Reference interval
by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT			
PUS CELLS by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT	2-3	/HPF	0 - 5
EPITHELIAL CELLS by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT	1-2	/HPF	ABSENT
CRYSTALS by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT	NEGATIVE (-ve)		NEGATIVE (-ve)
CASTS by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT	NEGATIVE (-ve)		NEGATIVE (-ve)
BACTERIA by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT	NEGATIVE (-ve)		NEGATIVE (-ve)
OTHERS by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT	NEGATIVE (-ve)		NEGATIVE (-ve)
TRICHOMONAS VAGINALIS (PROTOZOA) by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT	ABSENT		ABSENT

** End Of Report ***



DR.VINAY CHOPRA CONSULTANT PATHOLOGIST MBBS, MD (PATHOLOGY & MICROBIOLOGY)

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