



	<b>Dr. Vinay Chop</b> MD (Pathology & Mi Chairman & Consult	crobiology)		(Pathology)
NAME	: Mr. SUNIL KUMAR BANSAL			
AGE/ GENDER	: 66 YRS/MALE		PATIENT ID	: 1529812
COLLECTED BY	:		REG. NO./LAB NO.	: 012408250004
<b>REFERRED BY</b>	:		<b>REGISTRATION DATE</b>	: 25/Aug/2024 07:10 AM
BARCODE NO.	: 01515652		<b>COLLECTION DATE</b>	: 25/Aug/2024 07:11AM
CLIENT CODE.	: KOS DIAGNOSTIC LAB		REPORTING DATE	: 25/Aug/2024 08:59AM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AM	BALA CANT	Т	
Test Name		Value	Unit	Biological Reference interval
	SWA	STHYA W	ELLNESS PANEL: 1.0	
	CO	MPLETE B	LOOD COUNT (CBC)	
RED BLOOD CELLS (F	RBCS) COUNT AND INDICES			
HAEMOGLOBIN (HB		12.5	gm/dL	12.0 - 17.0
by CALORIMETRIC				
RED BLOOD CELL (RE	3C) COUNT FOCUSING, ELECTRICAL IMPEDENCE	4.08	Millions/c	cmm 3.50 - 5.00
PACKED CELL VOLUN		38.6 <sup>L</sup>	%	40.0 - 54.0
		94.8	fL	80.0 - 100.0
MEAN CORPUSCULA by CALCULATED BY A	AUTOMATED HEMATOLOGY ANALYZER	94.0	IL	80.0 - 100.0
	R HAEMOGLOBIN (MCH)	30.6	pg	27.0 - 34.0
	R HEMOGLOBIN CONC. (MCHC)	32.3	g/dL	32.0 - 36.0
by CALCULATED BY A	UTOMATED HEMATOLOGY ANALYZER			
	TON WIDTH (RDW-CV)	13.1	%	11.00 - 16.00
-	TION WIDTH (RDW-SD)	46.3	fL	35.0 - 56.0
by CALCULATED BY A	UTOMATED HEMATOLOGY ANALYZER			
MENTZERS INDEX		23.24	RATIO	BETA THALASSEMIA TRAIT: < 13. IRON DEFICIENCY ANEMIA: >13.(
GREEN & KING INDE	X	30.4	RATIO	BETA THALASSEMIA TRAIT:<= 65
by CALCULATED				IRON DEFICIENCY ANEMIA: > 65.
WHITE BLOOD CELLS	<u>S (WBCS)</u>			
	OUNT (TLC) y by sf cube & microscopy	4390	/cmm	4000 - 11000
NUCLEATED RED BL		NIL		0.00 - 20.00
	RT HEMATOLOGY ANALYZER	NUL	0/	. 10.9/
	DOD CELLS (nRBCS) %	NIL	%	< 10 %
DIFFERENTIAL LEUC				
NEUTROPHILS		69	%	50 - 70
by FLOW CYTOMETR	Y BY SF CUBE & MICROSCOPY			

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





# KOS Diagnostic Lab (A Unit of KOS Healthcare)



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

NAME: Mr. SUNIL KUMAR BANSALAGE/ GENDER: 66 YRS/MALECOLLECTED BY:REFERRED BY:BARCODE NO.: 01515652CLIENT CODE.: KOS DIAGNOSTIC LABCLIENT ADDRESS: 6349/1, NICHOLSON ROAD, A	REG. REGI COLI REP( MBALA CANTT	ENT ID NO./LAB NO. ISTRATION DATE LECTION DATE DRTING DATE	: 1529812 <b>: 012408250004</b> : 25/Aug/2024 07:10 AM : 25/Aug/2024 07:11AM : 25/Aug/2024 08:59AM
Test Name	Value	Unit	Biological Reference interval
LYMPHOCYTES by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY	19 <sup>L</sup>	%	20 - 40
	4	%	1 - 6
by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY MONOCYTES by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY	8	%	2 - 12
BASOPHILS	0	%	0 - 1
by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY ABSOLUTE LEUKOCYTES (WBC) COUNT			
ABSOLUTE NEUTROPHIL COUNT	3029	/cmm	2000 - 7500
by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY ABSOLUTE LYMPHOCYTE COUNT	834	/cmm	800 - 4900
by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY			
ABSOLUTE EOSINOPHIL COUNT by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY	176	/cmm	40 - 440
ABSOLUTE MONOCYTE COUNT	351	/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 MARK			
PLATELETS AND OTHER PLATELET PREDICTIVE MARK PLATELET COUNT (PLT)	<u>eks.</u> 172000	/cmm	150000 - 450000
by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE	0.21	%	0.10 0.26
PLATELETCRIT (PCT) by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE	0.21		0.10 - 0.36
MEAN PLATELET VOLUME (MPV) by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE	12 <sup>H</sup>	fL	6.50 - 12.0
PLATELET LARGE CELL COUNT (P-LCC) by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE	75000	/cmm	30000 - 90000
PLATELET LARGE CELL RATIO (P-LCR) by Hydro Dynamic Focusing, ELECTRICAL IMPEDENCE	43.9	%	11.0 - 45.0
PLATELET DISTRIBUTION WIDTH (PDW) by Hydro Dynamic Focusing, electrical impedence NOTE: TEST CONDUCTED ON EDTA WHOLE BLOOD	16	%	15.0 - 17.0



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TEST PERFORMED AT KOS DIAGNOSTIC LAB, AMBALA CANTT.



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NAME		ultant i athologi		Tatiologist
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CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, A	MBALA CANT		
Test Name		Value	Unit	Biological Reference interval
	ERYTH	ROCYTE SED	IMENTATION RATE (ESF	()
	MENTATION RATE (ESR) RGREN AUTOMATED METHOD	9	mm/1st h	r 0 - 20
immune disease, but 2. An ESR can be affe as C-reactive protein 3. This test may also systemic lupus eryth <b>CONDITION WITH LO</b> A low ESR can be see (polycythaemia), sig as sickle cells in sick <b>NOTE:</b> 1. ESR and C - reactive 3. <b>CRP is not affected</b> 4. If the ESR is elevat 5. Women tend to ha 6. Drugs such as dexi	does not tell the health practition acted by other conditions besides in be used to monitor disease activity ematosus <b>W ESR</b> en with conditions that inhibit the hificantly high white blood cell cou- le cell anaemia) also lower the ES re protein (C-RP) are both markers as not change as rapidly as does CI I by as many other factors as is ESR red, it is typically a result of two ty ave a higher ESR, and menstruation	ner exactly whe inflammation. F ty and response normal sedime unt (leucocytos R. of inflammatio RP, either at the types of proteins and pregnanc?	re the inflammation is in the for this reason, the ESR is type e to therapy in both of the al- ntation of red blood cells, su is) , and some protein abnor n. e start of inflammation or as etter marker of inflammation s, globulins or fibrinogen.	bicallý used in conjunction with other test such bove diseases as well as some others, such as uch as a high red blood cell count smalities. Some changes in red cell shape (such it resolves.
	Star .		Ghopra	

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







		hopra & Microbiology) onsultant Pathologist	Dr. Yugam MD CEO & Consultant	(Pathology)
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CLIENT ADDRESS	: 6349/1, NICHOLSON ROAI	D, AMBALA CANTT		
Test Name		Value	Unit	Biological Reference interval
	CLI	NICAL CHEMISTR	//BIOCHEMISTR	Υ
L	CLI	NICAL CHEMISTR GLUCOSE FA		Y

KOS Diagnostic Lab (A Unit of KOS Healthcare)

A fasting plasma glucose level below 100 mg/dl is considered normal.
 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.
 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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Test Name		Value	Unit	Biological Reference interval
		LIPID PROFILI	E : BASIC	
CHOLESTEROL TOTA by CHOLESTEROL O		221.39 <sup>H</sup>	mg/dL	OPTIMAL: < 200.0 BORDERLINE HIGH: 200.0 - 239.0 HIGH CHOLESTEROL: > OR = 240.0
TRIGLYCERIDES: SEF by GLYCEROL PHOSE	RUM PHATE OXIDASE (ENZYMATIC)	102.57	mg/dL	OPTIMAL: < 150.0 BORDERLINE HIGH: 150.0 - 199.0 HIGH: 200.0 - 499.0 VERY HIGH: > OR = 500.0
HDL CHOLESTEROL by SELECTIVE INHIBIT		50.26	mg/dL	LOW HDL: < 30.0 BORDERLINE HIGH HDL: 30.0 - 60.0 HIGH HDL: > OR = 60.0
LDL CHOLESTEROL: by CALCULATED, SP	SERUM ECTROPHOTOMETRY	150.62 <sup>H</sup>	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 CHOLESTE by CALCULATED, SP	EROL: SERUM ECTROPHOTOMETRY	171.13 <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 CHOLESTEROL		20.51	mg/dL	0.00 - 45.00
TOTAL LIPIDS: SERU	M	545.35	mg/dL	350.00 - 700.00
CHOLESTEROL/HDL		4.4	RATIO	LOW RISK: 3.30 - 4.40 AVERAGE RISK: 4.50 - 7.0 MODERATE RISK: 7.10 - 11.0 HIGH RISK: > 11.0
LDL/HDL RATIO: SEF by CALCULATED, SPE		3	RATIO	LOW RISK: 0.50 - 3.0 MODERATE RISK: 3.10 - 6.0 HIGH RISK: > 6.0
	th.	Guo	ra	

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CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AMI	BALA CANTT		
Test Name		Value	Unit	Biological Reference interval
TRIGLYCERIDES/HDI		2.04 <sup>L</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.

 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.
 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
LIV	ER FUNCTION T	EST (COMPLETE)	
BILIRUBIN TOTAL: SERUM by diazotization, spectrophotometry	0.46	mg/dL	INFANT: 0.20 - 8.00 ADULT: 0.00 - 1.20
BILIRUBIN DIRECT (CONJUGATED): SERUM by DIAZO MODIFIED, SPECTROPHOTOMETRY	0.13	mg/dL	0.00 - 0.40
BILIRUBIN INDIRECT (UNCONJUGATED): SERUM by CALCULATED, SPECTROPHOTOMETRY	0.33	mg/dL	0.10 - 1.00
SGOT/AST: SERUM by IFCC, WITHOUT PYRIDOXAL PHOSPHATE	13.3	U/L	7.00 - 45.00
SGPT/ALT: SERUM by IFCC, WITHOUT PYRIDOXAL PHOSPHATE	11.7	U/L	0.00 - 49.00
AST/ALT RATIO: SERUM by calculated, spectrophotometry	1.14	RATIO	0.00 - 46.00
ALKALINE PHOSPHATASE: SERUM by Para Nitrophenyl phosphatase by amino methyl propanol	101.17	U/L	40.0 - 130.0
GAMMA GLUTAMYL TRANSFERASE (GGT): SERUM by szasz, spectrophtometry	10.7	U/L	0.00 - 55.0
TOTAL PROTEINS: SERUM by biuret, spectrophotometry	6.02 <sup>L</sup>	gm/dL	6.20 - 8.00
ALBUMIN: SERUM by BROMOCRESOL GREEN	3.9	gm/dL	3.50 - 5.50
GLOBULIN: SERUM by CALCULATED, SPECTROPHOTOMETRY	2.12 <sup>L</sup>	gm/dL	2.30 - 3.50
A : G RATIO: SERUM by CALCULATED, SPECTROPHOTOMETRY	1.84	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
HEPATOCELLULAR CARCINOMA & CHRONIC HEPATITIS	> 1.3 (Slightly Increased)





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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



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Dr. Vinay Chopra

MD (Pathology & Microbiology)

Chairman & Consultant Pathologist



Dr. Yugam Chopra

**CEO & Consultant Pathologist** 

MD (Pathology)

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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



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Test Name		Value Unit	t Biological Reference interval		
NCREASED RATIO (>2 1. Postrenal azotemia 2. Prerenal azotemia DECREASED RATIO (<1 1. Acute tubular necro 2. Low protein diet ar 3. Severe liver disease 4. Other causes of de 5. Repeated dialysis ( 5. Inherited hyperam	superimposed on renal disease. <b>0:1) WITH DECREASED BUN :</b> bsis. d starvation. c. creased urea synthesis. urea rather than creatinine diffu nonemias (urea is virtually abse	es out of extracellular fluid). t in blood). ne) due to tubular secretion of urea.			



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NAME	: Mr. SUNIL KUMAR BANSAL		
AGE/ GENDER	: 66 YRS/MALE	PATIENT ID	: 1529812
COLLECTED BY	:	REG. NO./LAB NO.	: 012408250004
<b>REFERRED BY</b>	:	<b>REGISTRATION DATE</b>	: 25/Aug/2024 07:10 AM
BARCODE NO.	: 01515652	COLLECTION DATE	: 25/Aug/2024 07:11AM
CLIENT CODE.	: KOS DIAGNOSTIC LAB	<b>REPORTING DATE</b>	: 25/Aug/2024 01:00PM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AMB	ALA CANTT	
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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DR.YUGAM CHOPRA CONSULTANT PATHOLOGIST MBBS, MD (PATHOLOGY)

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	Dr. Vinay Ch MD (Pathology & Chairman & Con		Dr. Yugam MD CEO & Consultant	(Pathology)
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: KOS DIAGN	NOSTIC LAB	RI	EPORTING DATE	: 25/Aug/2024 09:54AM
: 6349/1, N	ICHOLSON ROAD,	AMBALA CANTT		
		Value	Unit	Biological Reference interval
<u>FION</u>	URINE R	CLINICAL PA	ATHOLOGY DSCOPIC EXAMINAT	ION

PHYSICAL EXAMINATION			
QUANTITY RECIEVED	10	ml	
by DIP STICK/REFLECTANCE SPECTROPHOTOMETRY COLOUR by DIP STICK/REFLECTANCE SPECTROPHOTOMETRY	AMBER YELLOW		PALE YELLOW
TRANSPARANCY	CLEAR		CLEAR
by DIP STICK/REFLECTANCE SPECTROPHOTOMETRY SPECIFIC GRAVITY by DIP STICK/REFLECTANCE SPECTROPHOTOMETRY CHEMICAL EXAMINATION	1.01		1.002 - 1.030
REACTION	ACIDIC		
by DIP STICK/REFLECTANCE SPECTROPHOTOMETRY			
PROTEIN by DIP STICK/REFLECTANCE SPECTROPHOTOMETRY	Negative		NEGATIVE (-ve)
SUGAR	Negative		NEGATIVE (-ve)
by DIP STICK/REFLECTANCE SPECTROPHOTOMETRY	<=5.0		5.0 - 7.5
pH by DIP STICK/REFLECTANCE SPECTROPHOTOMETRY	<=5.0		5.0 - 7.5
BILIRUBIN by DIP STICK/REFLECTANCE SPECTROPHOTOMETRY	Negative		NEGATIVE (-ve)
NITRITE	Negative		NEGATIVE (-ve)
by DIP STICK/REFLECTANCE SPECTROPHOTOMETRY.		<b>E</b> 11/11	
UROBILINOGEN by DIP STICK/REFLECTANCE SPECTROPHOTOMETRY	Normal	EU/dL	0.2 - 1.0
KETONE BODIES	Negative		NEGATIVE (-ve)
by DIP STICK/REFLECTANCE SPECTROPHOTOMETRY			
BLOOD by DIP STICK/REFLECTANCE SPECTROPHOTOMETRY	Negative		NEGATIVE (-ve)
ASCORBIC ACID	NEGATIVE (-ve)		NEGATIVE (-ve)

by DIP STICK/REFLECTANCE SPECTROPHOTOMETRY MICROSCOPIC EXAMINATION



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NAME

AGE/ GENDER

**COLLECTED BY** 

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**BARCODE NO.** 

**CLIENT CODE.** 

Test Name

**CLIENT ADDRESS** 



## KOS Diagnostic Lab (A Unit of KOS Healthcare)



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

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Test Name		Value	Unit	Biological Reference interval	
RED BLOOD CELLS (I	RBCs) Centrifuged urinary sediment	NEGATIVE (-ve)	/HPF	0 - 3	
PUS CELLS		3-4	/HPF	0 - 5	
DY MICRUSCUP Y UN	CENTRIFUGED URINARY SEDIMENT				
EPITHELIAL CELLS	CENTRIFUGED URINARY SEDIMENT	1-3	/HPF	ABSENT	
EPITHELIAL CELLS by MICROSCOPY ON CRYSTALS		1-3 NEGATIVE (-ve)	/HPF	ABSENT NEGATIVE (-ve)	

by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT BACTERIA by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT

OTHERS by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT

TRICHOMONAS VAGINALIS (PROTOZOA) by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT

\*\*\* End Of Report \*\*\*

NEGATIVE (-ve)

NEGATIVE (-ve)

ABSENT





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NEGATIVE (-ve)

NEGATIVE (-ve)

ABSENT