



	Dr. Vinay Chop ra MD (Pathology & Micr Chairman & Consultar	obiology)		(Pathology)	
NAME	: Mr. UMA KANT				
AGE/ GENDER	: 70 YRS/MALE		PATIENT ID	: 1717956	
COLLECTED BY	: SURJESH		REG. NO./LAB NO.	: 012501070001	
REFERRED BY	:		REGISTRATION DATE	: 07/Jan/2025 09:06 AM	
BARCODE NO.	: 01523547		COLLECTION DATE	: 07/Jan/2025 09:39AM	
CLIENT CODE.	: KOS DIAGNOSTIC LAB		REPORTING DATE	: 07/Jan/2025 09:51AM	
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AMB/	ALA CANTT			
Test Name		Value	Unit	Biological Reference	interval
	COMP		LLNESS PANEL: 1.0 OOD COUNT (CBC)		
	S (RBCS) COUNT AND INDICES				
HAEMOGLOBIN (H	B)	14.5	gm/dL	12.0 - 17.0	
RED BLOOD CELL (RBC) COUNT	5.13 ^H	Millions/	/cmm 3.50 - 5.00	
PACKED CELL VOLU	JME (PCV) utomated hematology analyzer	45.7	%	40.0 - 54.0	
MEAN CORPUSCUL		89	fL	80.0 - 100.0	
MEAN CORPUSCUL	AR HAEMOGLOBIN (MCH) UTOMATED HEMATOLOGY ANALYZER	28.2	pg	27.0 - 34.0	
	AR HEMOGLOBIN CONC. (MCHC) UTOMATED HEMATOLOGY ANALYZER	31.7 ^L	g/dL	32.0 - 36.0	
	UTION WIDTH (RDW-CV) UTOMATED HEMATOLOGY ANALYZER	14.1	%	11.00 - 16.00	
RED CELL DISTRIB	UTION WIDTH (RDW-SD) UTOMATED HEMATOLOGY ANALYZER	47.1	fL	35.0 - 56.0	
MENTZERS INDEX by CALCULATED		17.35	RATIO	BETA THALASSEMIA 13.0 IRON DEFICIENCY A >13.0	
GREEN & KING INE by CALCULATED	DEX	24.41	RATIO	BETA THALASSEMIA 65.0 IRON DEFICIENCY A 65.0	
WHITE BLOOD CE	LLS (WBCS)				
TOTAL LEUCOCYTE	E COUNT (TLC) (by sf cube & microscopy	7230	/cmm	4000 - 11000	
	BLOOD CELLS (nRBCS) RT HEMATOLOGY ANALYZER	NIL		0.00 - 20.00	
	BLOOD CELLS (nRBCS) % UTOMATED HEMATOLOGY ANALYZER	NIL	%	< 10 %	





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TEST PERFORMED AT KOS DIAGNOSTIC LAB, AMBALA CANTT.



NAME



Dr. Vinay Chopra

: Mr. UMA KANT



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

	: 6349/1, NICHOLSON ROAD, AMBALA CANTT		
CLIENT ADDRESS	2040/1 NICHOLCON DOAD AMDALA CANTT		
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DIFFERENTIAL LEUCOCYTE COUNT (DLC)			
NEUTROPHILS by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY	73 ^H	%	50 - 70
LYMPHOCYTES by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY	15 ^L	%	20 - 40
EOSINOPHILS by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY	4	%	1 - 6
MONOCYTES by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY	8	%	2 - 12
BASOPHILS by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY	0	%	0 - 1
ABSOLUTE LEUKOCYTES (WBC) COUNT			
ABSOLUTE NEUTROPHIL COUNT by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY	5278	/cmm	2000 - 7500
ABSOLUTE LYMPHOCYTE COUNT by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY	1084	/cmm	800 - 4900
ABSOLUTE EOSINOPHIL COUNT by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY	289	/cmm	40 - 440
ABSOLUTE MONOCYTE COUNT by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY	578	/cmm	80 - 880
ABSOLUTE BASOPHIL COUNT by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY	0	/cmm	0 - 110
PLATELETS AND OTHER PLATELET PREDICTIVE	MARKERS.		
PLATELET COUNT (PLT) by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE	283000	/cmm	150000 - 450000
PLATELETCRIT (PCT) by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE	0.27	%	0.10 - 0.36
MEAN PLATELET VOLUME (MPV) by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE	10	fL	6.50 - 12.0
PLATELET LARGE CELL COUNT (P-LCC) by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE	64000	/cmm	30000 - 90000
PLATELET LARGE CELL RATIO (P-LCR) by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE	22.5	%	11.0 - 45.0
PLATELET DISTRIBUTION WIDTH (PDW) by hydro dynamic focusing, electrical impedence NOTE: TEST CONDUCTED ON EDTA WHOLE BLOOD	15.9	%	15.0 - 17.0



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Test Name	Value	Unit	Biological Reference interval



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LIENT CODE.	: KOS DIAGNOSTIC LAB		REPORTING DATE	: 07/Jan/2025 10:26AM
LIENT ADDRESS	: 6349/1, NICHOLSON ROAD, A	AMBALA CANTT		
Test Name		Value	Unit	Biological Reference interval
by RED CELL AGGRE NTERPRETATION: I. ESR is a non-specif mmune disease, but 2. An ESR can be affe as C-reactive protein	DIMENTATION RATE (ESR) GATION BY CAPILLARY PHOTOMETR ic test because an elevated result does not tell the health practition cted by other conditions besides be used to monitor disease activi	9 Y often indicates her exactly wher inflammation. Fo	e the inflammation is in the or this reason, the ESR is ty	hr 0 - 20





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CLIENT CODE.	: KOS DIAGNOSTIC LAB		REPORTING DATE	: 07/Jan/2025 10:56AM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAL), AMBALA CANTT		
Test Name		Value	Unit	Biological Reference interval
	CLIN	ICAL CHEMIST	FRY/BIOCHEMIST	'RY
		GLUCOSE	FASTING (F)	

KOS Diagnostic Lab (A Unit of KOS Healthcare)

IN ACCORDANCE 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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SO 9001:2008 CERT	IFIED LAB		EXCELLENCE IN HEALTHCARE	& DIAGNOSTICS
		Chopra y & Microbiology) Consultant Pathologist	Dr. Yugam MD CEO & Consultant	(Pathology)
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CLIENT ADDRESS	: 6349/1, NICHOLSON ROA	AD, AMBALA CANTT		
Test Name		Value	Unit	Biological Reference interval
		LIPID PRO	FILE : BASIC	
CHOLESTEROL TO by CHOLESTEROL O		103.18	mg/dL	OPTIMAL: < 200.0 BORDERLINE HIGH: 200.0 - 239.0 HIGH CHOLESTEROL: > OR =
TRIGLYCERIDES: S by GLYCEROL PHOSF	ERUM PHATE OXIDASE (ENZYMATIC)	78.03	mg/dL	240.0 OPTIMAL: < 150.0 BORDERLINE HIGH: 150.0 - 199.0 HIGH: 200.0 - 499.0
HDL CHOLESTERO by SELECTIVE INHIBIT	L (DIRECT): SERUM 70N	42.16	mg/dL	VERY HIGH: > OR = 500.0 LOW HDL: < 30.0 BORDERLINE HIGH HDL: 30.0 - 60.0 HIGH HDL: > OR = 60.0
LDL CHOLESTERO by CALCULATED, SPE		59.61	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		61.02	mg/dL	VERT HIGH: > OR = 190.0 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		15.61	mg/dL	0.00 - 45.00
TOTAL LIPIDS: SEF	RUM	298.59 ^L	mg/dL	350.00 - 700.00
CHOLESTEROL/HE by CALCULATED, SPE	DL RATIO: SERUM	2.45	RATIO	LOW RISK: 3.30 - 4.40 AVERAGE RISK: 4.50 - 7.0 MODERATE RISK: 7.10 - 11.0 HIGH RISK: > 11.0
and the second				



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CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD,	AMBALA CANTT		
Test Name		Value	Unit	Biological Reference interval
LDL/HDL RATIO: S by CALCULATED, SPE		1.41	RATIO	LOW RISK: 0.50 - 3.0 MODERATE RISK: 3.10 - 6.0 HIGH RISK: > 6.0
TRIGLYCERIDES/H by CALCULATED, SPE		1.85 ^L	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
	LIV	VER FUNCTION	TEST (COMPLETE)	
BILIRUBIN TOTAL: by DIAZOTIZATION, SP	SERUM PECTROPHOTOMETRY	0.74	mg/dL	INFANT: 0.20 - 8.00 ADULT: 0.00 - 1.20

by DIAZOTIZATION, SPECTROPHOTOMETRY	0.74	mg/dL	ADULT: 0.00 - 1.20
BILIRUBIN DIRECT (CONJUGATED): SERUM by DIAZO MODIFIED, SPECTROPHOTOMETRY	0.21	mg/dL	0.00 - 0.40
BILIRUBIN INDIRECT (UNCONJUGATED): SERUM by CALCULATED, SPECTROPHOTOMETRY	0.53	mg/dL	0.10 - 1.00
SGOT/AST: SERUM by IFCC, WITHOUT PYRIDOXAL PHOSPHATE	26.2	U/L	7.00 - 45.00
SGPT/ALT: SERUM by IFCC, WITHOUT PYRIDOXAL PHOSPHATE	25.1	U/L	0.00 - 49.00
AST/ALT RATIO: SERUM by CALCULATED, SPECTROPHOTOMETRY	1.04	RATIO	0.00 - 46.00
ALKALINE PHOSPHATASE: SERUM by PARA NITROPHENYL PHOSPHATASE BY AMINO METHYL PROPANOL	84.34	U/L	40.0 - 130.0
GAMMA GLUTAMYL TRANSFERASE (GGT): SERUM by SZASZ, SPECTROPHTOMETRY	26.3	U/L	0.00 - 55.0
TOTAL PROTEINS: SERUM by BIURET, SPECTROPHOTOMETRY	6.71	gm/dL	6.20 - 8.00
ALBUMIN: SERUM by BROMOCRESOL GREEN	4.07	gm/dL	3.50 - 5.50
GLOBULIN: SERUM by CALCULATED, SPECTROPHOTOMETRY	2.64	gm/dL	2.30 - 3.50
A : G RATIO: SERUM by calculated, spectrophotometry	1.54	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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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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Test Name		Value	Unit	Biological Reference interv		
	KIDNE	Y FUNCTIO	N TEST (COMPLETE)			
UREA: SERUM		34.26	mg/dL	10.00 - 50.00		
•	ATE DEHYDROGENASE (GLDH)		Ũ			
CREATININE: SERU by ENZYMATIC, SPEC		1	mg/dL	0.40 - 1.40		
	ROGEN (BUN): SERUM	16.01	mg/dL	7.0 - 25.0		
by CALCULATED, SPECTROPHOTOMETRY						
	ROGEN (BUN)/CREATININE	16.01	RATIO	10.0 - 20.0		
RATIO: SERUM by CALCULATED, SPE	ECTROPHOTOMETRY					
UREA/CREATININ	E RATIO: SERUM	34.26	RATIO			
by CALCULATED, SPE		F 17		0.00 7.70		
URIC ACID: SERUM by URICASE - OXIDAS		5.17	mg/dL	3.60 - 7.70		
CALCIUM: SERUM		9.02	mg/dL	8.50 - 10.60		
by ARSENAZO III, SPE		0 70		2.20 4.70		
PHOSPHOROUS: SE by PHOSPHOMOLYBE	CKUM DATE, SPECTROPHOTOMETRY	2.78	mg/dL	2.30 - 4.70		
ELECTROLYTES						
SODIUM: SERUM		136.8	mmol/L	135.0 - 150.0		
by ISE (ION SELECTIV POTASSIUM: SERU	· · · · · · · · · · · · · · · · · · ·	4.5	mm al /I	2.50 5.00		
by ISE (ION SELECTIV		4.5	mmol/L	3.50 - 5.00		
CHLORIDE: SERUM	1	102.6	mmol/L	90.0 - 110.0		
by ISE (ION SELECTIV ESTIMATED GLOM	(E ELECTRODE)					
	ERULAR FILTERATION RATE	81				
(eGFR): SERUM	IEROLAN FILTENATION NATE	01				
by CALCULATED						
INTERPRETATION:	yoon pro, and post ronal azotomia					

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.



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CLIENT ADDRESS	: 6349/1, NIC	HOLSON ROAD, AMBA	LA CANT'I						
Fest Name			Value	Un	it	Biolog	gical Ref	erence in	terval
3. Reduced muscle m 9. Certain drugs (e.g. NCREASED RATIO (>2	tetracycline, glu 20:1) WITH ELEV, a (BUN rises disp superimposed o 10:1) WITH DECR	creatinine production) ucocorticoids) ATED CREATININE LEVE proportionately more th on renal disease.	.S:	ne) (e.g. obstructive	e uropathy).			





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Test Name	l l l l l l l l l l l l l l l l l l l	/alue Unit	Biological Reference interval
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AMBAI	A CANTT	
CLIENT CODE.	: KOS DIAGNOSTIC LAB	REPORTING DATE	: 07/Jan/2025 11:18AM
BARCODE NO.	: 01523547	COLLECTION DATE	: 07/Jan/2025 09:39AM
REFERRED BY	:	REGISTRATION DATE	: 07/Jan/2025 09:06 AM
COLLECTED BY	: SURJESH	REG. NO./LAB NO.	: 012501070001
AGE/ GENDER	: 70 YRS/MALE	PATIENT ID	: 1717956
NAME	: Mr. UMA KANT		
	MD (Pathology & Microl Chairman & Consultant	piology) ME	D (Pathology)
	Dr. Vinay Chopra	Dr. Yugar	n Chopra

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. Vinay Ch MD (Pathology & Chairman & Cons	Microbiology)	Dr. Yugam MD O & Consultant	(Pathology)
NAME	: Mr. UMA KANT			
AGE/ GENDER	: 70 YRS/MALE	PATIENT	D	: 1717956
COLLECTED BY	: SURJESH	REG. NO. /2	LAB NO.	: 012501070001
REFERRED BY	:		TION DATE	: 07/Jan/2025 09:06 AM
BARCODE NO.	: 01523547	COLLECTI		: 07/Jan/2025 09:39AM
CLIENT CODE. CLIENT ADDRESS	: KOS DIAGNOSTIC LAB : 6349/1, NICHOLSON ROAD, A	REPORTIN	NGDATE	: 07/Jan/2025 10:16AM
CLIENT ADDRESS	. 0545/ 1, MCHOLSON ROAD, /			
Test Name		Value	Unit	Biological Reference interval
		CLINICAL PATHO	LOGY	
	URINE RO	UTINE & MICROSCOP		ATION
PHYSICAL EXAMIN				
QUANTITY RECIEV		10	ml	
COLOUR	TANCE SPECTROPHOTOMETRY	AMBER YELLOW		PALE YELLOW
-	TANCE SPECTROPHOTOMETRY			
TRANSPARANCY by DIP STICK/REFLEC	TANCE SPECTROPHOTOMETRY	CLEAR		CLEAR
SPECIFIC GRAVITY	TANCE SPECTROPHOTOMETRY	1.01		1.002 - 1.030
CHEMICAL EXAMI				
REACTION		NEUTRAL		
PROTEIN	TANCE SPECTROPHOTOMETRY	Negative		NEGATIVE (-ve)
	TANCE SPECTROPHOTOMETRY			
SUGAR by DIP STICK/REFLEC	TANCE SPECTROPHOTOMETRY	Negative		NEGATIVE (-ve)
pH	TANCE SPECTROPHOTOMETRY	7		5.0 - 7.5
BILIRUBIN		Negative		NEGATIVE (-ve)
by DIP STICK/REFLEC NITRITE	TANCE SPECTROPHOTOMETRY	Negative		NEGATIVE (-ve)
by DIP STICK/REFLEC	TANCE SPECTROPHOTOMETRY.			
UROBILINOGEN by DIP STICK/REFLEC	TANCE SPECTROPHOTOMETRY	Normal	EU/dL	0.2 - 1.0
KETONE BODIES	TANCE SPECTROPHOTOMETRY	Negative		NEGATIVE (-ve)
BLOOD		Negative		NEGATIVE (-ve)
by DIP STICK/REFLEC	TANCE SPECTROPHOTOMETRY	NEGATIVE (-ve)		NEGATIVE (-ve)
by DIP STICK/REFLEC	TANCE SPECTROPHOTOMETRY	NEGATIVE (-VE)		NEGATIVE (-VE)
MICROSCOPIC EXA			/////	
RED BLOOD CELLS	(RBCs)	NEGATIVE (-ve)	/HPF	0 - 3



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



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

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CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AI	MBALA CANTT			
Test Name		Value	Unit	Biological Reference interval	
by MICROSCOPY ON (CENTRIFUGED URINARY SEDIMENT				
PUS CELLS by MICROSCOPY ON (CENTRIFUGED URINARY SEDIMENT	2-4	/HPF	0 - 5	
EPITHELIAL CELLS	S CENTRIFUGED URINARY SEDIMENT	1-2	/HPF	ABSENT	

by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT			
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)	ABSENT	ABSENT	

by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT

** End Of Report ***



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