

PKR JAIN HEALTHCARE INSTITUTE NASIRPUR, Hissar Road, AMBALA CITY- (Haryana)

A PIONEER DIAGNOSTIC CENTRE

【 0171-2532620, 8222896961 🛛 🖾 pkrjainhealthcare@gmail.com

NAME	: Mr. RAJEEV KUMAR				
AGE/ GENDER : 53 YRS/MALE		PATI	ENT ID	: 1794553	
COLLECTED BY	:	REG.	NO./LAB NO.	: 122503170027	
REFERRED BY	:	REGI	STRATION DATE	: 17/Mar/2025 02:24 PM	
BARCODE NO.	: 12507554	COLL	ECTION DATE	: 17/Mar/2025 02:28PM	
CLIENT CODE.	: P.K.R JAIN HEALTHCARE INSTI	TUTE REPO	RTING DATE	: 18/Mar/2025 07:58AM	
CLIENT ADDRESS	: NASIRPUR, HISSAR ROAD, AMB	ALA CITY - HARYAN	A		
Test Name		Value	Unit	Biological Reference interval	
		НАЕМАТО	LOGY		
	СОМ	IPLETE BLOOD	COUNT (CBC)		
RED BLOOD CEL	LS (RBCS) COUNT AND INDIC	CES			
HAEMOGLOBIN (H by CALORIMETRIC	B)	12.9	gm/dL	12.0 - 17.0	
RED BLOOD CELL by HYDRO DYNAMIC F	(RBC) COUNT	4.45	Millions/c	mm 3.50 - 5.00	
PACKED CELL VOLUME (PCV) by calculated by automated hematology analyzer		38 ^L	%	40.0 - 54.0	
MEAN CORPUSCULAR VOLUME (MCV) by CALCULATED BY AUTOMATED HEMATOLOGY ANALYZER			fL	80.0 - 100.0	
MEAN CORPUSCULAR HAEMOGLOBIN (MCH) by calculated by automated hematology analyzer			pg	27.0 - 34.0	
by CALCULATED BY A	LAR HEMOGLOBIN CONC. (MC		g/dL	32.0 - 36.0	
by CALCULATED BY A	BUTION WIDTH (RDW-CV) UTOMATED HEMATOLOGY ANALYZER	12.8	%	11.00 - 16.00	
by CALCULATED BY A	BUTION WIDTH (RDW-SD) UTOMATED HEMATOLOGY ANALYZER	41.6	fL	35.0 - 56.0	
MENTZERS INDEX by CALCULATED		19.17	RATIO	BETA THALASSEMIA TRAI 13.0 IRON DEFICIENCY ANEMIA >13.0	
GREEN & KING IN by CALCULATED	DEX	24.46	RATIO	BETA THALASSEMIA TRAIT <= 65.0 IRON DEFICIENCY ANEMIA 65.0	
WHITE BLOOD C	ELLS (WBCS)				
TOTAL LEUCOCY by FLOW CYTOMETRY	TE COUNT (TLC) (by sf cube & microscopy	6700	/cmm	4000 - 11000	
by AUTOMATED 6 PAR	BLOOD CELLS (nRBCS) RT HEMATOLOGY ANALYZER	NIL		0.00 - 20.00	
NLICI FATED RED	BLOOD CELLS (nRBCS) %	NIL	%	< 10 %	





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

DR.YUGAM CHOPRA CONSULTANT PATHOLOGIST

NOT VALID FOR MEDICO LEGAL PURPOSE



Mr. RAIEEV KUMAR

NAME

PKR JAIN HEALTHCARE INSTITUTE NASIRPUR, Hissar Road, AMBALA CITY- (Haryana) A PIONEER DIAGNOSTIC CENTRE

【 0171-2532620, 8222896961 🛛 🖾 pkrjainhealthcare@gmail.com

NAME	: Mr. RAJEEV KUMAR				
AGE/ GENDER	: 53 YRS/MALE	PATIEN	NT ID	: 1794553	
COLLECTED BY : REFERRED BY :		REG. NO	D./LAB NO.	: 122503170027	
		REGIST	RATION DATE	: 17/Mar/2025 02:24 PM	
BARCODE NO.			TION DATE	: 17/Mar/2025 02:271 M	
CLIENT CODE.	: P.K.R JAIN HEALTHCARE INSTI		TING DATE	: 18/Mar/2025 07:58AM	
CLIENT ADDRESS	: NASIRPUR, HISSAR ROAD, AMB			. 10/ 111/ 2020 01:00110	
Test Name		Value	Unit	Biological Reference interva	
by CALCULATED BY A	UTOMATED HEMATOLOGY ANALYZER				
DIFFERENTIAL L	EUCOCYTE COUNT (DLC)				
NEUTROPHILS by FLOW CYTOMETRY	Y BY SF CUBE & MICROSCOPY	69	%	50 - 70	
	Y BY SF CUBE & MICROSCOPY	26	%	20 - 40	
•	Y BY SF CUBE & MICROSCOPY	0 ^L	%	1 - 6	
MONOCYTES by FLOW CYTOMETRY	Y BY SF CUBE & MICROSCOPY	5	%	2 - 12	
•	Y BY SF CUBE & MICROSCOPY OCYTES (WBC) COUNT	⁰ PKR	%	0 - 1	
ABSOLUTE NEUTF		4623	/cmm	2000 - 7500	
ABSOLUTE LYMPH by FLOW CYTOMETRY	HOCYTE COUNT y by sf cube & microscopy	1742	/cmm	800 - 4900	
ABSOLUTE EOSIN	OPHIL COUNT y by sf cube & microscopy	0 ^L	/cmm	40 - 440	
ABSOLUTE MONO	CYTE COUNT y by sf cube & microscopy	335	/cmm	80 - 880	
•	Y BY SF CUBE & MICROSCOPY	0	/cmm	0 - 110	
PLATELETS AND	OTHER PLATELET PREDICTIV	<u>VE MARKERS.</u>			
PLATELET COUNT by hydro dynamic f	Γ (PLT) FOCUSING, ELECTRICAL IMPEDENCE	170000	/cmm	150000 - 450000	
PLATELETCRIT (P by HYDRO DYNAMIC F	CT) FOCUSING, ELECTRICAL IMPEDENCE	0.24	%	0.10 - 0.36	
MEAN PLATELET ' by hydro dynamic f	VOLUME (MPV) FOCUSING, ELECTRICAL IMPEDENCE	14 ^H	fL	6.50 - 12.0	
	CELL COUNT (P-LCC)	91000 ^H	/cmm	30000 - 90000	
	CELL RATIO (P-LCR)	53.6 ^H	%	11.0 - 45.0	
PLATELET DISTRI	BUTION WIDTH (PDW)	17	%	15.0 - 17.0	



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

DR.YUGAM CHOPRA CONSULTANT PATHOLOGIST





PKR JAIN HEALTHCARE INSTITUTE NASIRPUR, Hissar Road, AMBALA CITY- (Haryana)

A PIONEER DIAGNOSTIC CENTRE

🔽 0171-2532620, 8222896961 🛛 🖾 pkrjainhealthcare@gmail.com

NAME	: Mr. RAJEEV KUMAR			
AGE/ GENDER	: 53 YRS/MALE	PATIENT ID	: 1794553	
COLLECTED BY	:	REG. NO./LAB NO.	: 122503170027	
REFERRED BY	:	REGISTRATION DATE	: 17/Mar/2025 02:24 PM	
BARCODE NO.	: 12507554	COLLECTION DATE	: 17/Mar/2025 02:28PM	
CLIENT CODE.	: P.K.R JAIN HEALTHCARE INSTITUTE	REPORTING DATE	: 18/Mar/2025 07:58AM	
CLIENT ADDRESS	: NASIRPUR, HISSAR ROAD, AMBALA CITY - HARYANA			

Test Name	Value	Unit	Biological Reference interval

by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE NOTE: TEST CONDUCTED ON EDTA WHOLE BLOOD





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

DR.YUGAM CHOPRA CONSULTANT PATHOLOGIST





A PIONEER DIAGNOSTIC CENTRE

🔽 0171-2532620, 8222896961 🛛 🖾 pkrjainhealthcare@gmail.com

NAME	: Mr. RAJEEV KUMAR			
AGE/ GENDER	: 53 YRS/MALE	РАТ	IENT ID	: 1794553
COLLECTED BY	:	REG	. NO./LAB NO.	: 122503170027
REFERRED BY	:	REG	ISTRATION DATE	: 17/Mar/2025 02:24 PM
BARCODE NO.	: 12507554	COL	LECTION DATE	: 17/Mar/2025 02:28PM
LIENT CODE.	: P.K.R JAIN HEALTHCARE INSTI	TUTE REP	ORTING DATE	: 17/Mar/2025 04:51PM
CLIENT ADDRESS	: NASIRPUR, HISSAR ROAD, AMB	BALA CITY - HARYAN	NA	
Fest Name		Value	Unit	Biological Reference interval
	IMMU	NOPATHOLO	GY/SEROLOGY	Y
	C-	REACTIVE PR	OTEIN (CRP)	
C-REACTIVE PRO	TEIN (CRP) QUANTITATIVE:	3.51	mg/L	0.0 - 6.0
SERUM				
by NEPHLOMETRY				
	(CRP) is one of the most sensitive a	cute-phase reactant	s for inflammation.	
2. CRP levels can incr	ease dramatically (100-fold or mor	e) after severe trau	ma, bacterial infection,	inflammation, surgery, or neoplastic
proliferation.			alle and the sheat info	ctions after surgery, to detect transplant

4. As compared to ESR, CRP shows an earlier rise in inflammatory disorders which begins in 4-6 hrs, the intensity of the rise being higher than ESR and the recovery being earlier than ESR. Unlike ESR, CRP levels are not influenced by hematologic conditions like Anemia, Polycythemia etc., 5. Elevated values are consistent with an acute inflammatory process. NOTE:

1. Elevated C-reactive protein (CRP) values are nonspecific and should not be interpreted without a complete clinical history.

2. Oral contraceptives may increase CRP levels.





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

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





PKR JAIN HEALTHCARE INSTITUTE NASIRPUR, Hissar Road, AMBALA CITY- (Haryana)

A PIONEER DIAGNOSTIC CENTRE

【 0171-2532620, 8222896961 🛛 🖾 pkrjainhealthcare@gmail.com

IAME	: Mr. RAJEEV KUMAR				
GE/ GENDER	: 53 YRS/MALE		PATIENT ID	: 1794553	
COLLECTED BY	:		REG. NO./LAB NO.	: 12250317002	7
REFERRED BY	:		REGISTRATION DATE	: 17/Mar/2025 02	:24 PM
BARCODE NO.	: 12507554		COLLECTION DATE	: 17/Mar/2025 02	:28PM
CLIENT CODE.	: P.K.R JAIN HEALTHCARE INST	ITUTE	REPORTING DATE	: 27/Mar/2025 04	:45PM
CLIENT ADDRESS	: NASIRPUR, HISSAR ROAD, AM	BALA CITY - H	ARYANA		
Test Name		Value	Unit	Biologic	al Reference interv
	M	OLECULA	R PATHOLOGY		
	GENE XPERT FOR	К МУСОВА	CTERIUM TUBERCU	JLOSIS (MTB)	
FYPE OF SAMPLE		SPUTUN	1		
	E-POLYMERASE CHAIN REACTION)	NECAT			
	A TUBERCULOSIS COMPLEX E-POLYMERASE CHAIN REACTION)	NEGAL.	IVE (-ve)		
INTERPRETATION:					
RESULT Mycobacterium Tuberculosis Complex (MTB):		MTR target	REMARKS	onsidered positive	
DETECTED (H	igh/Medium/Low/Very low	wird target	for use in clinical decis		
Rifampicin Resistance: DETECTED			n in the rpoB gene target se ted implicating resistance t		
Mycobacterium Tuberculosis Complex (MTB): DETECTED (High/Medium/Low/Very low		MTB target	is present within sample: Co for use in clinical decis		
Rifampicin Resistance: INTERMEDIATE		Rifampicin Resistance could not be determined due to invalid melt peaks. Intermediate result of Rifampicin resistance should be subjected to culture bases drug sensitivity testing			
Mycobacterium Tuberculosis Complex (MTB): DETECTED (High/Medium/Low/Very low		MTB target is present within sample: Considered positive for use in clinical decision			
Rifampicin F	Resistance: NOT DETECTED		on in the rpoB gene target h		
Mycobacterium Tuberculosis Complex (MTB): NOT DETECTED		MTB target is not detected present within sample: Considered negative for use in clinical decision			
Mycobacterium Tuberculosis Complex (MTB): DETECTED TRACE		Low levels of MTB are detected but Rifampicin resistance could not be determined due to insufficient signal detection because of too low concentration of bacilli. This occurs due to the increased sensitivity of TB detection using multi copy targets IS6110 and IS1081 as opposed to Rifampicin resistance detection using the single copy rpoB gene.			
		Traco pr	ositive Result of MTB is true	nositive and is	



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

DR.YUGAM CHOPRA

CONSULTANT PATHOLOGIST





A PIONEER DIAGNOSTIC CENTRE

0171-2532620, 8222896961 🛛 🖾 pkrjainhealthcare@gmail.com

NAME	: Mr. RAJEEV KUMAR			
AGE/ GENDER	: 53 YRS/MALE	PATIENT ID	: 1794553	
COLLECTED BY	:	REG. NO./LAB NO.	: 122503170027	
REFERRED BY	:	REGISTRATION DATE	: 17/Mar/2025 02:24 PM	
BARCODE NO.	: 12507554	COLLECTION DATE	: 17/Mar/2025 02:28PM	
CLIENT CODE.	: P.K.R JAIN HEALTHCARE INSTITUTE	REPORTING DATE	: 27/Mar/2025 04:45PM	
CLIENT ADDRESS	: NASIRPUR, HISSAR ROAD, AMBALA CITY - HARYANA			

Test Name	Value	Unit	Biological Reference interval
	inspection, child	dren and for extra pulmonary	samples

NOTE:

1. This is a rapid semi quantitative DNA based real time PCR & melt peak detection which detects the nucleic acid of Mycobacterium tuberculosis

This is a rapid semii quantitative DNA based real time PCR & ment peak detection which detects the nucleic acid of Mycobacterium tuberculosis complex DNA signifying that infection is likely with any of the following species namely M. tuberculosis, M. africanum, M. bovis, M. canettii, M. microti, M. caprae or M. pinnipedii forming the Mycobacterium tuberculosis complex and Rifampicin susceptibility qualitatively.
 Primers in the Xpert MTB/RIF Ultra Assay amplify a portion of the rpoB gene containing the 81 base pair "core" region and portions of the multi-copy IS1081 and IS6110 insertion elements target sequences. The melt analysis with four rpoB probes is able to differentiate between the conserved wild-type sequence and mutations in the core region that are associated with Rifampicin resistance.
 Autotions or problements in primes or problements binding regions and approximate associated with Rifampicin resistance.

3. Mutations or polymorphisms in primer or probe binding regions may affect detection of new or unknown MDR-MTB or Rifampicin resistant strains resulting in a false Rifampicin-sensitive result.

4. This assay does not provide confirmation of Rifampicin susceptibility since mechanisms of Rifampicin Resistance other than those detected by this device may exist that may be associated with a lack of clinical response to treatment.
5. Limit of detection is approximately 11.8 CFU/ mL with sensitivity of smear positive / culture positive cases 99.5%, smear negative culture and the result of the sensitivity of smear positive cases 99.5%, smear negative culture and the result of the sensitive cases 99.5%.

positive cases 73.3%; and specificity of 95.5%.

6. It does not distinguish between species of Mycobacteria tuberculosis complex nor detects atypical Mycobacteria.

7. This assay should not be used for monitoring the efficacy of anti-tubercular treatment.

a. Negative result does not rule out the presence of Mycobacterium tuberculosis complex or active disease because the organism may be present at levels below the limit of detection of this assay.

COMMENTS

The World Health Organization (WHO) has recommended the use of this assay in all settings for semi-quantitative detection of Mycobacterium tuberculosis complex and Rifampicin susceptibility. The recommendation on the Ultra cartridge is based on a recent WHO Expert Group evaluation of data from a study coordinated by FIND, in collaboration with the Tuberculosis Clinical Diagnostics Research Consortium (CDRC). The increased sensitivity of the Ultra assay is almost exclusively due to its low TB detection limit. The improved sensitivity of the Ultra assay is specially seen in children and individuals with HIV infection. This method ensures a better performance of the assay for detecting Rifampicin resistance without compromising

*** End Of Report ***





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

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

