



Dr. Vinay Chopra

MD (Pathology & Microbiology)

Chairman & Consultant Pathologist



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

NAME	: Mr. VIJAY KAPOOR		
AGE/ GENDER	: 75 YRS/MALE	PATIENT ID	: 1709383
COLLECTED BY	: SURJESH	REG. NO./LAB NO.	: 012412260042
REFERRED BY	:	REGISTRATION DATE	: 26/Dec/2024 02:13 PM
BARCODE NO.	: 01523049	COLLECTION DATE	: 26/Dec/2024 02:21PM
CLIENT CODE.	: KOS DIAGNOSTIC LAB	REPORTING DATE	: 26/Dec/2024 09:31PM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AMBALA CANTT	ſ	

MICROBIOLOGY

SPUTUM FOR ROUTINE MICROSCOPIC EXAMINATION

TEST NAME:

SPUTUM FOR ROUTINE MICROSCOPIC EXAMINATION

CLINICAL HISTORY (IF ANY)

NATURE OF SPECIMEN:

SPUTUM

MICROSCOPIC EXAMINATION :

Smear show a few epithelial cells & inflammatory cells in a mucoid background.

ZEIHL NEELSEN (Z.N) STAIN FOR ACID FAST BACILLI:

No acid fast bacilli seen in Z.N stained smear.

IMPRESSION:

Negative for AFB (Acid fast bacilli).



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

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

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TEST PERFORMED AT KOS DIAGNOSTIC LAB, AMBALA CANTI







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Page 2 of 4





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BARCODE NO.	: 01523049	CO	LLECTION DATE	:26/Dec/202402	::21PM
CLIENT CODE.	: KOS DIAGNOSTIC LAB	RE	PORTING DATE	: 30/Dec/2024 04	:33PM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, A	MBALA CANTT			
Test Name		Value	Unit	Biologic	cal Reference interval
MYCOBACTERIUM	GENE XPERT FO POLYMERASE CHAIN REACTION TUBERCULOSIS COMPLEX POLYMERASE CHAIN REACTION	R MYCOBACTE SPUTUM NEGATIVE (RIUM TUBERCUL -ve)	OSIS (MTB)	
	RESULT		REMARKS		
	Tuberculosis Complex (MTB): gh/Medium/Low/Very low		esent within sample: Co or use in clinical decisi		
	Resistance: DETECTED	detected	the rpoB gene target see mplicating resistance t	o rifampicin	
	Tuberculosis Complex (MTB): gh/Medium/Low/Very low		esent within sample: Co or use in clinical decisi		
Rifampicin R	esistance: INTERMEDIATE	invalid melt p	istance could not be de eaks. Intermediate resu ould be subjected to cul sensitivity testing	ult of Rifampicin	
	Tuberculosis Complex (MTB): gh/Medium/Low/Very low		esent within sample: Co or use in clinical decisi		•
	esistance: NOT DETECTED		the rpoB gene target ha		
Mycobacterium Tul	berculosis Complex (MTB): NOT DETECTED		s not detected present negative for use in cli		
	Tuberculosis Complex (MTB): TECTED TRACE	could not be dete because of too lo to the increased s targets IS611 resistance det Trace positiv	TB are detected but Rifa rmined due to insufficion w concentration of bac sensitivity of TB detection and IS1081 as oppose ection using the single e Result of MTB is true ent in those with known	ent signal detection illi. This occurs due on using multi copy ed to Rifampicin copy rpoB gene. positive and is	





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TEST PERFORMED AT KOS DIAGNOSTIC LAB, AMBALA CANTT.





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Test Name		Value Unit	Biological Reference interval
		inspection, children 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 target sequences.

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 methods are approximately 20%.

positive cases 73.3%; and specificity of 95.5%.

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

KOS Diagnostic Lab (A Unit of KOS Healthcare)

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







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