





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

NAME	: Mr. DIMPY		
AGE/ GENDER	: 37 YRS/MALE	PATIENT ID	: 1645706
COLLECTED BY	:	REG. NO./LAB NO.	:012410170026
REFERRED BY	: CIVIL HOSPITAL (AMBALA CANTT)	REGISTRATION DATE	: 17/Oct/2024 10:58 AM
BARCODE NO.	: 01519045	COLLECTION DATE	: 17/Oct/2024 10:59AM
CLIENT CODE.	: KOS DIAGNOSTIC LAB	REPORTING DATE	: 17/Oct/2024 05:00PM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AMBALA CANTT	Г	

MICROBIOLOGY

ACID FAST BACILLI (AFB)/ZEIHL-NEELSEN (Z-N) STAIN EXAMINATION

TEST NAME:

TEST PERFORMED AT KOS DIAGNOSTIC LAB. AMBALA CANTT

ACID FAST BACILLI (AFB)/ZEIHL-NEELSEN (Z-N) STAIN EXAMINATION

CLINICAL HISTORY (IF ANY)

NATURE OF SPECIMEN:

SPUTUM

MICROSCOPIC EXAMINATION :

Smear show a few epithelial cells & inflammatory cells in a little mucus.

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).



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

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Page 2 of 4





	Dr. Vinay Cho MD (Pathology & Chairman & Cons	Microbiology)) (Pathology)	
NAME	: Mr. DIMPY				
AGE/ GENDER	: 37 YRS/MALE		PATIENT ID	: 1645706	
COLLECTED BY	:		REG. NO./LAB NO.	:01241017002	6
REFERRED BY	: CIVIL HOSPITAL (AMBALA CA	NTT)	REGISTRATION DATE	: 17/0ct/2024 10	
BARCODE NO.	: 01519045		COLLECTION DATE	: 17/0ct/2024 10	
CLIENT CODE.	: KOS DIAGNOSTIC LAB		REPORTING DATE	: 19/0ct/2024 09	
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, A	MBALA CANTT			
Test Name		Value	Unit	Biologica	al Reference interval
		MOLECULA	R PATHOLOGY		
	GENE XPERT F		CTERIUM TUBERCULO	SIS (MTB)	
TYPE OF SAMPLE		SPUTUM			
	E-POLYMERASE CHAIN REACTION)		- / 、		
	UBERCULOSIS COMPLEX E-POLYMERASE CHAIN REACTION)	NEGATIVI	_ (-ve)		
INTERPRETATION:	LA DE IMERASE ONAIN REACTION)				
	RESULT		REMARKS		
Mycobacterium Tuberculosis Complex (MTB): DETECTED (High/Medium/Low/Very low		MTB target is present within sample: Considered positive for use in clinical decision			
Rifampici	n Resistance: DETECTED		n in the rpoB gene target se		
Mycobacterium	Tuberculosis Complex (MTB):	detected implicating resistance to rifampicin MTB target is present within sample: Considered positive			
	igh/Medium/Low/Very low		for use in clinical decis		
Rifamnicin I	Posistanco: INTERMEDIATE	Pifampicin	Resistance could not be d	atermined due to	
Rifampicin Resistance: INTERMEDIATE			elt peaks. Intermediate res		
		resistance	should be subjected to cu	ulture bases drug	
Mycobacterium	Tuberculosis Complex (MTB):	MTB target i	sensitivity testing s present within sample: 0	onsidered positive	
	igh/Medium/Low/Very low	wirb target i	for use in clinical decis		
Rifamnicin F	Pasistanca: NOT DETECTED	No mutatic	on in the rnoB gono target b	has been detected	
Rifampicin Resistance: NOT DETECTED Mycobacterium Tuberculosis Complex (MTB): NOT		No mutation in the rpoB gene target has been detected MTB target is not detected present within sample:			
DETECTED		Considered negative for use in clinical decision			
Mycobacterium	Tuberculosis Complex (MTR)		f MTB are detected but Rif	famnicin resistanco	
Mycobacterium Tuberculosis Complex (MTB): DETECTED TRACE			determined due to insuffic		
		because of to	o low concentration of ba	cilli. This occurs due	
		to the increas	ed sensitivity of TB detect 6110 and IS1081 as oppos	ion using multi copy	
			detection using the single		
			0 0		
		Trace po	sitive Result of MTB is true atment in those with know	e positive and is	



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TEST PERFORMED AT KOS DIAGNOSTIC LAB, AMBALA CANTT.





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NAME	: Mr. DIMPY		
AGE/ GENDER	: 37 YRS/MALE	PATIENT ID	: 1645706
COLLECTED BY	:	REG. NO./LAB NO.	: 012410170026
REFERRED BY	: CIVIL HOSPITAL (AMBALA CANTT	() REGISTRATION DATE	: 17/Oct/2024 10:58 AM
BARCODE NO.	: 01519045	COLLECTION DATE	: 17/Oct/2024 10:59AM
CLIENT CODE.	: KOS DIAGNOSTIC LAB	REPORTING DATE	: 19/Oct/2024 09:06AM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AMB/	ALA CANTT	
Test Name		Value Unit	Biological Reference interval
L		inspection, children and for extra pu	Ilmonary 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 semi 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.
 Automation of the problem of the rule analysis of the rule and portion 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 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.

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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