



Dr. Vinay Cho MD (Pathology & Chairman & Cons		Microbiology)	ME	Dr. Yugam Chopra MD (Pathology) & Consultant Pathologist	
NAME	: Dr. PUNEETI				
AGE/ GENDER	: 36 YRS/FEMALE		PATIENT ID	: 1572269	
COLLECTED BY	:		REG. NO./LAB NO.	: 012408060049	
REFERRED BY	: C. LAL HOSPITAL (AMBALA C	ANTT)	REGISTRATION DATE	: 06/Aug/2024 12:35 PM	
BARCODE NO.	: 01514597	,	COLLECTION DATE	: 06/Aug/2024 12:36PM	
CLIENT CODE.	: KOS DIAGNOSTIC LAB		REPORTING DATE	: 06/Aug/2024 05:45PM	
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, A	MBALA CANT	Т		
Test Name		Value	Unit	Biological Reference interval	
		MOLECUL	AR PATHOLOGY		
	GENE XPERT F	OR MYCOB	ACTERIUM TUBERCULO	OSIS (MTB)	
TYPE OF SAMPLE		SPUTUN	1		
	-POLYMERASE CHAIN REACTION) JBERCULOSIS COMPLEX	NEGATI			
	-POLYMERASE CHAIN REACTION)	NEGATI	ve (-ve)		
INTERPRETATION:					
Mycobacterium	RESULT Tuberculosis Complex (MTB):	MTB targe	REMARKS t is present within sample: (Considered positive	
DETECTED (High/Medium/Low/Very low		for use in clinical decision			
Rifampicin Resistance: DETECTED		A Mutation in the rpoB gene target sequence has been detected implicating resistance to rifampicin			
Mycobacterium Tuberculosis Complex (MTB): DETECTED (High/Medium/Low/Very low		MTB target is present within sample: Considered positive for use in clinical decision			
Rifampicin Resistance: INTERMEDIATE		Rifampicin Resistance could not be determined due to invalid melt peaks. Intermediate result of Rifampicin			
		resistance	ce should be subjected to cu sensitivity testing	ulture bases drug	
Mycobacterium Tuberculosis Complex (MTB): DETECTED (High/Medium/Low/Very low		MTB target is present within sample: Considered positive for use in clinical decision			
Rifampicin R	esistance: NOT DETECTED	No mutat	ion in the rpoB gene target h	has been detected	
Mycobacterium Tuberculosis Complex (MTB): NOT		MTB target is not detected present within sample:			
	DETECTED	Consi	dered negative for use in cl	inical decision	
	Tuberculosis Complex (MTB): ETECTED TRACE	could not be because of t to the increa targets l	of MTB are detected but Rid e determined due to insuffic too low concentration of ba ased sensitivity of TB detect \$6110 and I\$1081 as oppos the detection using the single	cient signal detection cilli. This occurs due cion using multi copy ced to Rifampicin	
			ositive Result of MTB is true reatment in those with know		





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Test Name	Val	ue Unit	Biological Reference interval	
l	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.
 Auticipate real-mentione in primes or probes binding regione may affect detection of neuron MDD MTD or Differentiate between the conserved wild-type sequence and mutations in the core region that are 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 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

* End Of Report ***





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