



ISO 9001 : 2008 CERT			EXCELLENCE IN HEALTHCARE	
		Chopra / & Microbiology) onsultant Pathologist	Dr. Yugam MD CEO & Consultant	(Pathology)
NAME AGE/ GENDER COLLECTED BY REFERRED BY BARCODE NO. CLIENT CODE.	: <b>Mr. HIRA LAL NAYYAR</b> : 74 YRS/MALE : : : 01514244 : KOS DIAGNOSTIC LAB	REG. I REGIS COLLI	ENT ID NO./LAB NO. STRATION DATE ECTION DATE RTING DATE	: 1567307 <b>: 012408010028</b> : 01/Aug/2024 11:42 AM : 02/Aug/2024 09:35AM : 03/Aug/2024 11:17AM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROA			
Test Name		Value	Unit	Biological Reference interval
	CULTURE AEROB	MICROBIOL		VITY: SPUTUM
CULTURE AND SUSC	EPTIBILITY - SPUTUM			
DATE OF SAMPLE SPECIMEN SOURCE INCUBATION PERIO GRAM STAIN	D	01-08-2024 Sputum 48 Hours <b>Gram Positive</b>	: (+ve)	
by MICROSCOPY CULTURE		POSITIVE (+ve)		
by AUTOMATED BRO ORGANISM by AUTOMATED BRO AEROBIC SUSCEPTIE	TH CULTURE	Streptococci. sp.		
AMOXICILLIN+CLAV	ULANIC ACID TH MICRODILUTION, CLSI	RESISTANT		
AMPICILLIN by AUTOMATED BROT Concentration: 8 μg/i	TH MICRODILUTION, CLSI mL	RESISTANT		
AMPICILLIN+SULBA by AUTOMATED BRO Concentration: 8/4 μ	TH MICRODILUTION, CLSI	INTERMEDIATE		
CHLORAMPHENICO by AUTOMATED BRO Concentration: 8 µg/I	TH MICRODILUTION, CLSI	SENSITIVE		
<b>CIPROFLOXACIN</b> <i>by AUTOMATED BRO</i> Concentration: 1 µg/u	TH MICRODILUTION, CLSI mL	INTERMEDIATE		
DOXYCYCLINE by AUTOMATED BRO	TH MICRODILUTION, CLSI	SENSITIVE		
	DR.VINAY CHOPRA CONSULTANT PATHOLOGIST MBBS, MD (PATHOLOGY & MIC	DR.YUGAM CHI CONSULTANT F ROBIOLOGY) MBBS , MD (PA	PATHOLOGIST	

 KOS Central Lab: 6349/1, Nicholson Road, Ambala Cantt -133 001, Haryana

 KOS Molecular Lab: IInd Floor, Parry Hotel, Staff Road, Opp. GPO, Ambala Cantt -133 001, Haryana

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TEST PERFORMED AT KOS DIAGNOSTIC LAB, AMBALA CANTT.





XCELLENCE IN HEALTHCARE & DIAGNOSTICS
Dr. Yugam Chopra MD (Pathology) CEO & Consultant Pathologist
T ID       : 1567307         D./LAB NO.       : 012408010028         RATION DATE       : 01/Aug/2024 11:42 AM         TION DATE       : 02/Aug/2024 09:35AM         FING DATE       : 03/Aug/2024 11:17AM
Unit Biological Reference interval

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

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









	<b>Dr. Vinay Ch</b> MD (Pathology & Chairman & Con		Dr. Yugarı MD CEO & Consultant	(Pathology)
NAME AGE/ GENDER COLLECTED BY REFERRED BY BARCODE NO. CLIENT CODE. CLIENT ADDRESS	: Mr. HIRA LAL NAYYAR : 74 YRS/MALE : : : 01514244 : KOS DIAGNOSTIC LAB : 6349/1, NICHOLSON ROAD,	REG. N REGIS COLLI REPO	ENT ID NO./LAB NO. TRATION DATE ECTION DATE RTING DATE	: 1567307 <b>: 012408010028</b> : 01/Aug/2024 11:42 AM : 02/Aug/2024 09:35AM : 03/Aug/2024 11:17AM
Test Name		Value	Unit	Biological Reference interval
FOSFOMYCIN	H MICRODILUTION, CLSI	RESISTANT INTERMEDIATE		
LEVOFLOXACIN	TH MICRODILUTION, CLSI	SENSITIVE		
<b>NETLIMICIN SULPHA</b> <i>by AUTOMATED BRO</i> Concentration: 8 μg/r	TH MICRODILUTION, CLSI	SENSITIVE		
PIPERACILLIN+TAZO by AUTOMATED BRO Concentration: 16/4	TH MICRODILUTION, CLSI	SENSITIVE		
<b>TICARCILLIN+CLAVU</b> by AUTOMATED BRO Concentration: 16/2	TH MICRODILUTION, CLSI	SENSITIVE		
<b>TRIMETHOPRIM+SU</b> by AUTOMATED BRO Concentration: 2/38	TH MICRODILUTION, CLSI	INTERMEDIATE		
<b>CEFIPIME</b> <i>by AUTOMATED BRO</i> Concentration: 2 μg/r	<b>TH MICRODILUTION, CLSI</b> nL	INTERMEDIATE		
<b>DORIPENEM</b> <i>by AUTOMATED BRO</i> Concentration: 1 μg/r	<b>TH MICRODILUTION, CLSI</b> nL	SENSITIVE		
IMIPINEM by AUTOMATED BROT	H MICRODILUTION, CLSI	RESISTANT		
	DR.VINAY CHOPRA	ghops DR.YUGAM CHO	DPRA	

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CONSULTANT PATHOLOGIST

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	<b>Dr. Vinay Chop</b> MD (Pathology & Mi Chairman & Consult	crobiology)		Pathology)	
NAME	: Mr. HIRA LAL NAYYAR				]
AGE/ GENDER	: 74 YRS/MALE	]	PATIENT ID	: 1567307	
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<b>REFERRED BY</b>	:	]	REGISTRATION DATE	:01/Aug/2024 11:42 AM	
BARCODE NO.	:01514244	(	COLLECTION DATE	: 02/Aug/2024 09:35AM	
CLIENT CODE.	: KOS DIAGNOSTIC LAB	]	REPORTING DATE	:03/Aug/2024 11:17AM	
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AM	BALA CANTT			
Test Name		Value	Unit	Biological Reference interval	Ī
Concentration: 1 µg/m	nL				1
<b>MEROPENEM</b> by AUTOMATED BROT Concentration: 1 μg/m COLISTIN	TH MICRODILUTION, CLSI	SENSITIVE			
	<b>H MICRODILUTION, CLSI</b> g/mL	JENSITVE			
recommended for tha 2. A test interpreted as physiologically concer 3.A test interpreted as dosage, schedule and, has not been reliable <b>CAUTION:</b> Conditions which can 1. Patient is on antibio 2. Anaerobic bacteria 3. Fastidious aerobic to 4. Besides all these fa	t type of infection and infecting spe s <b>INTERMEDIATE</b> implies that the" In trated or when a high dosage of dr <b>RESISTANT</b> implies that the "isolate /or fall in the range where specific in treatment studies. cause a false Negative culture: ptics. Please repeat culture post the	ecies, unless oth fection due to rug can be used as are not inhib microbial resis erapy.	herwise indicated. the isolate may be appropr y". bited by the usually achieva stance mechanism are likel ture media.	ed with the dosage of an antimicrobial agent iately treated in body sites where the drugs are ble concentration of the agents with normal ly (e.g. beta-lactamases), and clinical efficacy ivo clinical picture.	





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

NAME	: Mr. HIRA LAL NAYYAR		
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BARCODE NO.	: 01514244	COLLECTION DATE	: 02/Aug/2024 09:35AM
CLIENT CODE.	: KOS DIAGNOSTIC LAB	REPORTING DATE	:03/Aug/2024 11:16AM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AMBALA CANTT		

## **GRAMS STAIN**

TEST NAME: GRAMS STAIN

FEST PERFORMED AT KOS DIAGNOSTIC LAB. AMBALA CANTT

CLINICAL HISTORY (IF ANY)

## NATURE OF SPECIMEN:

SPUTUM

# MICROSCOPIC EXAMINATION :

Gram's stained smear show occasional gram +ve cocci.

## **IMPRESSION:**

Correlate clinically.

## Interpretation:-

Gram stain is the most important staining method in bacteriology. It is the most rapid method employed for the presumptive diagnosis of infections agent in clinical specimens. It also servers to assess the quality of clinical specimens. It distinguishes bacteria into broad categories

# It distinguishes bacteria into broad categories :

- (a).The gram-positive, which stain dark purple
- (b).Gram-negative ,which stain light red.





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(c).A few species are Gram-variable, and tend to show a mixture of the cells.

(d).Further details of the bacteria as any other special features , including unusual shapes (such as comma shaped Gram negative bacilli) as also observed.



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

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BARCODE NO.	:01514244	COLLECTION DATE	: 02/Aug/2024 09:35AM
CLIENT CODE.	: KOS DIAGNOSTIC LAB	REPORTING DATE	: 01/Aug/2024 05:09PM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AMBALA CANTT	ſ	

## FUNGAL SMEAR EXAMINATION

**TEST NAME: FUNGAL SMEAR EXAMINATION** 

CLINICAL HISTORY (IF ANY

SITE:

**SPUTUM** 

NATURE/APPEAREANCE OF SPECIMEN

Mucoid type

# MICROSCOPIC EXAMINATION:

Smear reveals no hypae or spores of fungus.

# **IMPRESSION:**

Negative for FUNGUS.





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	MD	Vinay Chopra (Pathology & Micr rman & Consultar	obiology)		Yugam ( MD (P onsultant P	athology)
NAME	: Mr. HIRA LAL N	AYYAR				
AGE/ GENDER	: 74 YRS/MALE			PATIENT ID		: 1567307
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<b>REFERRED BY</b>	:			REGISTRATION	DATE	: 01/Aug/2024 11:42 AM
BARCODE NO.	:01514244			COLLECTION DA	TE	: 02/Aug/2024 09:35AM
CLIENT CODE.	: KOS DIAGNOSTIO	C LAB		REPORTING DAT	ГЕ	: 07/Sep/2024 04:24PM
CLIENT ADDRESS	: 6349/1, NICHOL	SON ROAD, AMB	ALA CANTT			-
Test Name			Value	U	nit	Biological Reference interval
CULTURE: ACID FAST					ID BY BA	CTEC MGIT: OTHERS
DATE OF SAMPLE			02-08-202	24		
SPECIMEN SOURCE			SPUTUM			
ACID FAST/Z.N. STAIN	N FOR AFB		No Acid F	ast Bacilli seen.		NEGATIVE (-ve)
CULTURE MEDIUM L	ISED		MODIFIEI	D MIDDLEBROOK		
FIRST INTERIM REPO			NO FUNG	AL ORGANISM GR	OWN AFT	ER 2 DAYS INCUBATION AT 37*C
SECOND INTERIM RE			NO FUNG	AL ORGANISM GR	OWN AFT	ER 7 DAYS OF INCUBATION AT 37*C
FINAL REPORT by AUTOMATED FLUOR INTERPRETATION:	RESCENT		NO FUNG	AL ORGANISM GR	OWN AFT	ER 21 DAYS OF INCUBATION AT 37*C
NOTE:	wa aan firmaad koorst	d foot on oor	un lun a tila un			

1.All positive results are confirmed by acid fast smear examination.

2.Para Nitro Benzoic Acid (PNB) test is used for differentiating between Mycobacterium-tuberculosis complex and Mycobacterium other than tuberculosis (MOTT). Growth of the Mycobacterium tuberculosis complex (MTC) is inhibited by p-nitrobenzoicacid (PNB), whereas Mycobacterium other than Tuberculosis (MOTT) are resistant.

3. Recovery of Mycobacteria is dependent on the number of organisms present in the specimen, sample collection technique, clinical symptoms & treatment and Mycobacteria species.

4. Positive culture reported immediately.

#### PRINCIPLE:

TEST PERFORMED AT KOS DIAGNOSTIC LAB. AMBALA CANTT

BACTEC MGIT 960 system is designed and optimized for the rapid detection of mycobacteria and continuous monitoring using non radiometric fluorescence technology. Microorganisms present in specimens metabolize nutrients and oxygen in the culture tube. The culture tubes contain a fluorescent sensor that responds to the concentration of oxygen in the culture medium. The instrument's photo detectors measure the level of fluorescence, which corresponds to the amount of oxygen consumed by organisms.

#### ASSOCIATED TESTS:

1.AFB – Xpert panel : For rapid identification of M.tuberculosis complex and detection of Rifampicin resistance.
2.AFB MDR-screen Hain's Line probe assay from all pulmonary Specimen (smear positive and Negative).
3.AFB- XDR-screen Hain's Line probe assay for patients diagnosed as MDR-TB.





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6349/1, NICHOLSON ROAD, A	MBALA CANTT			
	Value	Unit	Biological Reference interva	
ERCULOSIS COMPLEX	NEGATIVE (-ve)	DEL MADI/O		
	MTR target is presen	ansidered positive		
	for use in clinical decision			
	A Mutation in the rpoB gene target sequence has been detected implicating resistance to rifampicin			
	for use in clinical decision			
istance: INTERMEDIATE	invalid melt peaks resistance should	. Intermediate resubjected to cu	ult of Rifampicin	
	could not be determin because of too low co to the increased sensi targets IS6110 and resistance detection Trace positive Re	ned due to insuffici- oncentration of bac tivity of TB detecti d IS1081 as oppose on using the single sult of MTB is true	ent signal detection illi. This occurs due on using multi copy ed to Rifampicin copy rpoB gene. positive and is	
		MOLECULAR PAT GENE XPERT FOR MYCOBACTERIU SPUTUM         OLYMERASE CHAIN REACTION)       SPUTUM         ERCULOSIS COMPLEX OLYMERASE CHAIN REACTION)       NEGATIVE (-ve)         RESULT       MTB target is preser for u         berculosis Complex (MTB): /Medium/Low/Very low       MTB target is preser for u         tesistance: DETECTED       A Mutation in the r detected impl berculosis Complex (MTB): /Medium/Low/Very low         istance: INTERMEDIATE       Rifampicin Resistar invalid melt peaks resistance should         berculosis Complex (MTB): /Medium/Low/Very low       MTB target is preser for u         istance: INTERMEDIATE       No mutation in the roculosis Complex (MTB): /Medium/Low/Very low         istance: NOT DETECTED       No mutation in the for u         berculosis Complex (MTB): /Medium/Low/Very low       MTB target is preser for u         istance: NOT DETECTED       No mutation in the for u         berculosis Complex (MTB): /Medium/Low/Very low       MTB target is no Considered neg         berculosis Complex (MTB): CETED TRACE       Low levels of MTB at could not be determini because of too low cc to the increased sensi targets IS6110 an resistance detection	MOLECULAR PATHOLOGY GENE XPERT FOR MYCOBACTERIUM TUBERCULOS SPUTUM         OLYMERASE CHAIN REACTION)       SPUTUM         RECULOSIS COMPLEX OLYMERASE CHAIN REACTION)       NEGATIVE (-ve)         RESULT       REMARKS         berculosis Complex (MTB): /Medium/Low/Very low       MTB target is present within sample: Cd for use in clinical decis         tessistance:       DETECTED         berculosis Complex (MTB): /Medium/Low/Very low       MTB target is present within sample: Cd for use in clinical decis         istance:       INTERMEDIATE         berculosis Complex (MTB): /Medium/Low/Very low       MTB target is present within sample: Cd for use in clinical decis         istance:       INTERMEDIATE         berculosis Complex (MTB): /Medium/Low/Very low       MTB target is present within sample: Cd for use in clinical decis         istance:       INTERMEDIATE         berculosis Complex (MTB): /Medium/Low/Very low       MTB target is present within sample: Cd for use in clinical decis         istance:       NOT DETECTED       No mutation in the rpoB gene target h for use in clinical decis         istance:       NOT DETECTED       No mutation in the rpoB gene target h for use in clinical decis         istance:       NOT DETECTED       No mutation in the rpoB gene target h for use in clinical decis         istance:       NOT DETECTED       Not mutation in the rpoB gene target h for use in cl	





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Test Name		Value	Unit	Biological Reference interval
		inspection, child	dren and for extra pul	monary 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.
 Autorians of the 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.

**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

#### \* End Of Report \*\*\*





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