

**Patient Name :** Demo Patient Name  
**Age / Sex :** 32 Y / M  
**Referred By :** DEMO HOSPITAL  
**Centre :** HOD Head Office

**Lab No :** Demo Visit No  
**Registration On :** 21-Jan-25 10:19  
**Patient ID :** UHID.DEMO.001

## Genexpert MTB

**Accession No:** DEMO\_BARCODE **Collected On:** 21-Jan-25 10:19 **Received On:** 21-Jan-25 16:15 **Approved On:** 21-Jan-25 21:21

Observation	Result	Unit	Biological Ref. Interval	Method
Ziehl Neelsen (ZN) Stain	Not Seen			ZN Stain
<b>GeneXpert MTB/RIF Ultra</b>				
Mycobacterium Tuberculosis Complex (MTBC)	MTB Not Detected			Nested real-time polymerase chain reaction (PCR)
Rifampicin Resistance	Not Detected			Nested real-time polymerase chain reaction (PCR)

### Interpretation:

- MTB NOT DETECTED result indicates Mycobacterium tuberculosis complex is absent or level is below the lower limit of detection for this assay.
- MTB DETECTED + RIF resistance NOT DETECTED result indicates that the bacteria are probably susceptible to Rifampicin.
- MTB DETECTED + RIF resistance DETECTED result indicates that the bacteria have high probability of resistance to Rifampicin.

**Test Utilizations:** This test identifies Multi-drug resistant TB (MDR-TB) based on presence or absence of MTB complex and its susceptibility to rifampicin in individuals with suspected pulmonary, extra-pulmonary TB infections.\

**Clinical Significance:** GeneXpert MTB/RIF Ultra, is a rapid automated molecular test for diagnosis of Mycobacterium tuberculosis (MTB) and resistance to rifampicin (RIF) in clinical specimens. It targets rpoB gene (hot spot region) which is critical for identifying Rifampicin resistance mutations

### Disclaimers:

- The report represents only the specimen received in laboratory.
- The Xpert MTB / RIF sensitivity is lower in Extra-pulmonary samples or smear negative samples as bacterial load is less in these samples, hence PCR negative result need to be correlated with the clinical picture.
- Results that are positive for MTB complex and indeterminate for Rifampicin resistance means that the test could not accurately determine if the bacteria are resistant to Rifampicin. Growth based susceptibility testing to first line TB drugs should be performed.



This is a Demo Signature  
and the doctor's signature should appear here

*In case of any unexpected or alarming results, please contact us immediately for re-confirmation, clarifications, and rectifications, if needed.*

