(Format for Negative) - MYCOBACTERIUM TUBERCULOSIS, PCR; MYCOSURE

**MYCOBACTERIUM TUBERCULOSIS, PCR; MYCOSURE**  
(Real Time PCR)

**Type of Sample**

Mycobacterium tuberculosis Complex

Non tuberculous Mycobacteria

**Interpretation**

<table>
<thead>
<tr>
<th>RESULT</th>
<th>COMMENTS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mycobacterium tuberculosis complex- Detected</td>
<td>Infection likely with any of the following species - <em>M. tuberculosis</em>, <em>M. bovis</em>, <em>M. microti</em> &amp; <em>M. africanum</em></td>
</tr>
<tr>
<td>Non tuberculous Mycobacteria - Detected</td>
<td>Infection likely with Mycobacterium other than tuberculosis complex</td>
</tr>
<tr>
<td>Inhibition Detected</td>
<td>Inhibitors detected in the sample provided. Repeat sample is recommended</td>
</tr>
<tr>
<td>Mycobacterium tuberculosis complex &amp; Non tuberculous Mycobacteria -Not detected</td>
<td>Mycobacteria not detected in the sample provided</td>
</tr>
</tbody>
</table>

**Note:**

1. This test includes 3 targets of which 2 are for Mycobacterium tuberculosis complex (*IS6110 & MPB64*) and 1 target for Mycobacterium genus (*16sRNA*)
2. This is an in-house developed Real time PCR assay for Qualitative detection.
3. Limit of detection of the assay is 1-10 Mycobacteria per PCR
4. This test does not differentiate between the Mycobacteria species
5. Mycobacterium culture is recommended in case inhibition is detected

**Comments**

Mycobacterium tuberculosis complex (*M. tuberculosis, M. bovis, M. microti & M. africanum*) are the only Mycobacteria that are transmitted from person to person and therefore are of public health importance. Non tuberculous Mycobacteria most commonly encountered are *M. avium* complex & *M. kansasii* which causes Pulmonary disease; *M. abscessus, M. chelonae , M. marinum & M. fortuitum* which cause skin and soft tissue infections. Many of the non tuberculous Mycobacteria are environmental contaminants. Nucleic acid amplification tests provide direct detection of various Mycobacteria.