

## SUSCEPTIBILITY TESTING OF M. TUBERCULOSIS COMPLEX

**Synonym(s):** TB Susceptibility Test - 1st Line, TB Susceptibility Test - 2nd Line, TB Susceptibility Test - Extended Line

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<b>Lab Section Category</b>	<b>Mycobacteriology</b> Click here to find out more about the <b>write-up</b> ( <a href="#">/clinical-departments-centers/pathology/pathology-handbook/lab-discipline-special-instructions/pages/mycobacteriology.aspx</a> ).
<b>Specimen Required</b>	For mycobacteria isolated in CTBL or in other laboratories
<b>Storage and Transport</b>	<p>Fresh pure culture of M. tuberculosis isolate on slant in sealed screw-capped plastic tube. Tube should be tightly closed, labelled with identifying lab number and placed in a biohazard-labelled ziplock bag. Pack, transport and notify CTBL (in advance) and MOH of the transfer, according to MOH-BATA requirements.</p> <p>Regional laboratories must make arrangements with the lab for the MOH-Import Permit before sending specimens and packaging must conform to international standards (IATA). The request form should state the name and address of referring laboratory, organism identification, clinical source, patient particulars with relevant clinical information, clinician in-charge and requester's contact number.</p> <p>The type of test request should be specified as <b>TB Culture for Susceptibility Testing</b>. Forms are to be placed in a separate sealed plastic bag in the outer package.</p>

<b>Method</b>	MGIT non-radiometric. Minimum Inhibitory Concentration breakpoint testing. Drugs available for TB culture Susceptibility Testing: 1st line: Streptomycin, rifampicin, isoniazid, ethambutol. 2nd line: Ofloxacin, kanamycin, ethionamide. Extended panel: Capreomycin, clofazimine and PAS. Other drugs: High-level Streptomycin (4ug/ml) High-level Isoniazid (0.4ug/ml) Levofloxacin
<b>Test Result</b>	Susceptible, Resistant
<b>Turnaround Time</b>	2 -4 weeks. Affected by slow-growing isolates.
<b>Day(s) Test Set up</b>	Monday - Friday
<b>Remarks</b>	For referred M. tuberculosis complex isolates from other laboratories, please contact CTBL before sending isolate.

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### Change History Notes

- 29 Apr 2016 06:41 PM**  
 Amend Method "1st line: Streptomycin, rifampicin, isoniazid, ethambutol".

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- 11 Sep 2017 06:20 PM**  
 Amend spelling for clofazimine

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