



**CITY AND COUNTY OF SAN FRANCISCO  
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## Test Order

### *Mycobacterium tuberculosis* Complex Drug Susceptibility Testing (First Line)

Synonym(s)	Antimycobacterial susceptibility testing to aid in the treatment of patients with tuberculosis.
Methodology	The BACTEC MGIT 960 is used as a rapid qualitative procedure for susceptibility testing of <i>M.tb.</i> complex from a culture for the following antimycobacterial drugs: isoniazid (INH), rifampin, ethambutol, pyrazinamide, streptomycin.
Acceptable Specimen Type(s) for Testing	Pure culture isolates of <i>M.tb.</i> complex from any specimen type/source.
Transport / Collection Medium	Pure cultures on Lowenstein-Jensen Slants, BACTEC MGIT Liquid Medium, Middlebrook 7H9 Broth
Storage and Preservation of Specimen	Freshly grown culture of <i>M.tb.</i> complex: no more than 14 days from inoculation for solid culture and no more than 5 days from inoculation for BACTEC MGIT liquid media. Keep culture at ambient temperature to preserve if over the recommended age of culture.
Minimum Volume Required	4 mL of BBL Middlebrook 7H9 broth or MGIT broth.
Additional Collection Instructions	Fresh, pure growth of <i>M.tb.</i> complex is required for this test. Identification of <i>M.tb.</i> complex must be confirmed before testing.
Additional Required Information	Collection date, specimen source required
Send Out?	No
Turnaround Time	13 days
Testing Restrictions	
Requisition Form(s)	<a href="http://sfcdcp.org/document.html?id=1035">http://sfcdcp.org/document.html?id=1035</a>
Limitations / Notes / Disclaimers	The BACTEC MGIT System susceptibility test does not interpret the degree of susceptibility of the isolate being tested. Results are reported as either "S" (susceptible) or "R" (resistant) for the drug and concentration tested.

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