

## CITY AND COUNTY OF SAN FRANCISCO PUBLIC HEALTH LABORATORY

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## **Test Order**

## Mycobacterium tuberculosis Complex Drug Susceptibility Testing, Second Line (Referred Testing to MDL-CDPH)

The BACTEC MGIT 960 is used as a rapid qualitative procedure for susceptibility testing of <i>M.tb.</i> complex from culture. Drugs tested are amikacin 1.5 μg/mL, moxifloxacin 0.25 μg/mL, capreomycin 3 μg/mL, ethionaminde 5 μg/mL.  Acceptable Specimen Type(s) for Testing  Transport / Collection Medium Middlebrook 7H9 Broth  Storage and Preservation of Specimen Specimen BACTEC MGIT Liquid Medium, or solid culture and 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 Additional Collection Instructions  Additional Required Information Collection date and specimen source required. Indicate first line drug susceptibility results and patient history. Prior approval with the Microbial Diseases Laboratory (MDL) required.  Send Out?	Synonym(s)	Antimycobacterial susceptibility testing to aid in the treatment of patients with tuberculosis (2 <sup>nd</sup> line drugs).
Type(s) for Testing  Transport / Collection     Medium  Storage and Preservation of Specimen  Minimum Volume Required  Additional Collection Instructions  Additional Required Information  Type(s) for Testing  Pure cultures on Lowenstein-Jensen Slants, BACTEC MGIT Liquid Medium, Middlebrook 7H9 Broth  Freshly grown culture of M.tb. 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.  4 mL of BBL Middlebrook 7H9 or MGIT medium, or solid culture  Fresh, pure growth of M.tb. complex is required for this test. Identification of M.tb. complex must be confirmed before testing.  Collection date and specimen source required. Indicate first line drug susceptibility results and patient history. Prior approval with the Microbial Diseases Laboratory (MDL) required.  Send Out? Yes	Methodology	susceptibility testing of <i>M.tb.</i> complex from culture. Drugs tested are amikacin 1.5 μg/mL, moxifloxacin 0.25 μg/mL, capreomycin 3 μg/mL,
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Storage and Preservation of Specimen BACTEC MGIT liquid media. Keep culture at ambient temperature to preserve if over the recommended age of culture.  Minimum Volume Required Additional Collection Instructions Additional Required Information Send Out? Yes  Middlebrook 7H9 Broth Freshly grown culture of M.tb. complex: no more than 14 days from inoculation for M.tb. complex: 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.  4 mL of BBL Middlebrook 7H9 or MGIT medium, or solid culture  Fresh, pure growth of M.tb. complex is required for this test. Identification of M.tb. complex must be confirmed before testing.  Collection date and specimen source required. Indicate first line drug susceptibility results and patient history. Prior approval with the Microbial Diseases Laboratory (MDL) required.		
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Diseases Laboratory (MDL) required.  Send Out? Yes	Additional Required	Collection date and specimen source required. Indicate first line drug
	Information	
	Send Out?	Yes
Turnaround Time 7-14 days	Turnaround Time	7-14 days
Testing Restrictions	Testing Restrictions	
Requisition Form(s) <a href="http://sfcdcp.org/document.html?id=1035">http://sfcdcp.org/document.html?id=1035</a>	Requisition Form(s)	http://sfcdcp.org/document.html?id=1035
Limitations / Notes / Results may be unobtainable due to cultures mixed with Non-tuberculous	Limitations / Notes /	Results may be unobtainable due to cultures mixed with Non-tuberculous
Disclaimers Mycobacteria.	Disclaimers	Mycobacteria.

Updated 2/10/2017