



**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)

Synonym(s)	Antimycobacterial susceptibility testing to aid in the treatment of patients with tuberculosis (2 nd line drugs).
Methodology	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, ethionamide 5 µg/mL.
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 or MGIT medium, or solid culture
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 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
Turnaround Time	7-14 days
Testing Restrictions	
Requisition Form(s)	http://sfcdcp.org/document.html?id=1035
Limitations / Notes / Disclaimers	Results may be unobtainable due to cultures mixed with Non-tuberculous Mycobacteria.

Updated 2/10/2017