MAYO
Mayo Medical Laboratories
1-800-533-1710

NEW TEST ANNOUNCEMENT
NOTIFICATION DATE: February 25, 2014
EFFECTIVE DATE: March 31, 2014

ANTIMICROBIAL SUSCEPTIBILITY, *MYCOBACTERIUM TUBERCULOSIS* COMPLEX, FIRST LINE

Test ID: TB1LN

USEFUL FOR:

- Rapid, qualitative susceptibility testing of *Mycobacterium tuberculosis* complex isolates growing in pure culture for isoniazid, rifampin, and ethambutol
- Affirming the initial choice of chemotherapy for *Mycobacterium tuberculosis* infections
- Confirming the emergence of drug resistance
- Guiding the choice of alternate agents for therapy for *Mycobacterium tuberculosis* infections

CLINICAL INFORMATION: This test uses an FDA-cleared commercial system for rapid broth susceptibility testing of *Mycobacterium tuberculosis* complex and assesses resistance to the following antimycobacterial drugs at the critical concentrations indicated: isoniazid (0.1 mcg/mL and 0.4 mcg/mL), rifampin (1 mcg/mL), and ethambutol (5 mcg/mL and 8 mcg/mL). A separate test is available for testing of the other first-line agent pyrazinamide.

METHODOLOGY: Broth Dilution at Critical Drug Concentrations

REFERENCE VALUES: Results are reported as susceptible or resistant.

SPECIMEN REQUIREMENTS:

Specimen Type: Organism
Container/Tube: Middlebrook 7H10 agar slant or Lowenstein-Jensen medium slant or in broth (eg, Mycobacteria Growth Indicator Tube [7H9] broth)
Specimen Volume: Isolate
Collection Instructions:
1. Organism must be in pure culture, actively growing.
2. Place specimen in a large infectious container (Supply T146) and affix a blue “C” label (Supply T549) to each container.

Additional Information:
1. Specimen source and suspected organism identification are required.
2. CTB / Mycobacterial Culture or CTBID / Culture Referred for Identification, *Mycobacterium* must also be ordered and will be charged separately unless identification of organism is provided.
3. See Infectious Specimen Shipping Guidelines in Special Instructions for shipping information.
Forms: If not ordering electronically, submit a Microbiology Request Form (Supply T244) with the specimen.

SPECIMEN STABILITY INFORMATION:

Specimen Type	Temperature	Time
Varies	Ambient (preferred)	
	Refrigerated	

CAUTIONS: For resistant organisms, confirmatory testing is automatically performed by minimum inhibitory concentration for isoniazid, rifampin, and ethambutol.

CPT CODE: 87188 x 3

DAY(S) SET UP: Monday through Sunday; Varies **ANALYTIC TIME**: 10-15 days

QUESTIONS: Contact your Mayo Medical Laboratories' Regional Manager or
Brandon DeBoom, MML Laboratory Technologist Resource Coordinator
Telephone: 800-533-1710