

***Mycobacterium tuberculosis* Complex, Molecular Detection of Drug Resistance Markers, Next-Generation Sequencing**

Test ID: DMTBR

Useful for:

Molecular detection of drug resistance variants in culture isolates of the *Mycobacterium tuberculosis* complex.

Methods:

Next-Generation Sequencing (NGS)

Reference Values:

Not applicable

Specimen Requirements:

Supplies:	Infectious Container, Large (T146)
Specimen Type:	<i>Mycobacterium tuberculosis</i> complex isolate growing in pure culture
Preferred:	Solid slant medium (eg. Middlebrook 7H10, 7H11 or Lowenstein Jensen agar)
Acceptable:	Broth medium (eg. Mycobacteria Growth Indicator Tube, 7H9 broth, BACT/ALERT MP or VersaTREK bottle). Note: Broth specimens will require subculture which will delay results.
Specimen Volume:	Solid slant medium: Isolate with visible growth Broth medium: Greater than or equal to 3 mL of broth culture
Collection Instructions:	1. Organism must be in pure culture, actively growing. Do not submit mixed cultures. 2. Place specimen in a large infectious container and label as an etiologic agent/infectious substance. 3. Turnaround time for results may be delayed if subculture is needed to ensure purity.
Minimum Volume:	See Specimen Required

Specimen Stability Information:

Specimen Type	Temperature	Time
Varies	Ambient (preferred)	
	Refrigerated	

Cautions:

The absence of a genetic variant in this assay does not indicate that the isolate is susceptible to an antimicrobial agent since not all genes in the *M tuberculosis* complex are queried. Phenotypic susceptibility testing is required.

CPT Code:

87153

Day(s) Performed: Monday through Friday

Report Available: 7 to 14 days

Questions

Contact Joshua Yang, Laboratory Resource Coordinator at 800-533-1710.