

TEST CHANGE

Acid-Fast Bacillus (AFB) Culture and AFB Stain with Reflex to Mycobacterium tuberculosis Complex Detection and Rifampin Resistance by PCR

0060738, MC AFBR

Specimen Requirements:

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Patient Preparation:	Three sputum specimens should be collected at 8-24 hour intervals (24 hours when possible) and at least one first- morning specimen. An individual order must be submitted for each specimen.
Collect:	Respiratory specimen, pleural fluid, CSF, tissue, gastric aspirate
Specimen Preparation:	Transfer (for each collection) 5-10 mL specimen or visible tissue to a sterile container, 50 ml sterile specimen transport tube preferred (Client supply number # 29582). (Min: 1 mL) Place each specimen in an individually sealed bag.
Transport Temperature:	Refrigerated.
Unacceptable Conditions:	Multiple same-site specimens (more than one in 24 hours), dry material, or material collected and transported on a swab.
Remarks:	Specimen source required.
Stability:	Ambient: 24 hours; Refrigerated: 1 week; Frozen: <u>Unacceptable² weeks</u>
Methodology:	Stain/Culture/16S rDNA Sequencing/ Broth Microdilution/Polymerase Chain Reaction/ Matrix-Assisted Laser Desorption Ionization-Time of Flight (MALDI-TOF) Mass Spectrometry
Performed:	Sun-Sat
Reported:	1-62 days
Note:	Respiratory specimens under 5 mL will receive a volume suboptimal disclaimer in the report. Positive cultures are reported as soon as detected. AFB stain, AFB identification of positives, and susceptibility tests are billed separately from culture. Identification of positive culture is billed by matrix- assisted laser desorption ionization (MALDI), PCR.) and/or sequencing tests performed. The laboratory should be notified when the presence of Mycobacterium genavense or

	Mycobacterium haemophilum is suspected, as these organisms will not grow on media routinely used for Mycobacterium isolation. The laboratory should be notified when M. xenopii is suspected, as this organism requires a different temperature from routine culture setup. The laboratory should be notified if the specimen is from a cystic fibrosis patient, as these specimens need additional decontamination from routine culture setup. Susceptibility will be performed on organisms isolated from a sterile source and isolates of Mycobacterium tuberculosis complex, M. chelonae, M. abscesses, M. fortuitum complex, M. immunogenum, M. mucogenicum. Susceptibility testing will be performed by request only on M. kansasii and M. marinum. Susceptibility testing of M. gordonae is inappropriate. For AFB susceptibility information, refer to Antimicrobial Susceptibility - AFB Mycobacteria (ARUP test code 0060217). For AFB culture on blood refer to Culture, Acid-Fast Bacillus, Blood (ARUP test code 0060060). After a positive result, repeat orders for Mycobacterium tuberculosis Complex Detection and Rifampin Resistance by PCR will continue to yield a positive result and repeat testing is not clinically
CPT Codes:	87116; if reflexed, add 87564; CPT codes for identification and susceptibility vary based on method
New York DOH Approval Status:	This test is New York DOH approved.
Interpretive Data:	
Reference Interval:	

Culture negative for acid-fast bacilli.

Identification ordered and performed on positives.

Susceptibility performed on all initial isolates of *M. tuberculosis* complex.

Susceptibility performed on Mycobacterium other than M. tuberculosis complex isolates by request only.

Susceptibility testing of *M. gordonae* is inappropriate.