
Lab Dept: Chemistry

Test Name: TOBRAMYCIN TROUGH, CONVENTIONAL

General Information

Lab Order Codes: TOBT

Synonyms: Nebcin

CPT Codes: 80200 - Tobramycin

Test Includes: Tobramycin concentration reported in ug/mL.

Logistics

Test Indications: Useful for therapeutic drug monitoring (TDM). Tobramycin is an aminoglycoside, which is a polycationic agent that kills aerobic gram-negative bacteria. For use with conventional (q8hr) dosing schedule.

Lab Testing Sections: Chemistry (Performed on Mpls Campus)

Phone Numbers: MIN Lab: 612-813-6280

STP Lab: 651-220-6550

Test Availability: Daily, 24 hours

Turnaround Time: Within 2 hours of receipt at Minneapolis lab. Please note – additional time required for transport from off site locations.

Special Instructions: Draw trough level just before the next dose.

Specimen

Specimen Type: Blood

Container: Green top (Li Heparin) tube, preferred
Alternate tube: Red, marble or gold top tube

Draw Volume: 0.6 mL blood

Processed Volume: 0.2 mL serum/plasma

Collection: Routine blood collection. Mix tubes containing anticoagulant by gentle inversion.

Special Processing: Lab Staff: Centrifuge specimen, remove serum/plasma aliquot into a plastic sample cup. Store at refrigerated temperature.

Patient Preparation: None

Sample Rejection: Mislabeled or unlabeled specimen

Interpretive

Reference Range: *Note:* Therapeutic ranges for individual patients should be based on dosing strategy.

Trough Levels	
Therapeutic concentration:	<2 ug/mL generally indicates elimination of the drug

Critical Values: >3 ug/mL

Limitations: Patients receiving amikacin, kanamycin a or kanamycin b should not rely on this method.

Methodology: Particle Enhanced Turbidimetric Inhibition Immunoassay (PETINIA)

References:

Abbott Alinity c Tobramycin Reagent Kit Instructions for Use, Abbott Diagnostics Division, Abbott Park, IL, 60064, USA. October 2018

Abbott Alinity c Tobramycin Calibrator Kit Package Insert, Abbott Laboratories Diagnostics Division, Abbott Park, IL, 60064, USA. March 2018

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Clinical Significance, Dade Behring Inc., Glasgow Business Community, Mailbox 531, P.O. Box 6101, Newark, Delaware 19714

Jacobs & DeMott Laboratory Test Handbook (2001) Lexi-Comp, Inc, Hudson, OH, 5th Edition

Bio-Rad Liquichek Unassayed Chemistry Control Product Insert, Bio-Rad Laboratories, Irvine, CA, USA

Bio-Rad Liquichek Immunoassay Plus Package Insert, Bio-Rad Laboratories, Irvine, CA, USA

Updates: 6/1/2023: New test code.