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**Lab Dept:** Chemistry

**Test Name:** TOBRAMYCIN 2-POST DOSE, EXTENDED INTERVAL

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***General Information***

**Lab Order Codes:** TOBPX

**Synonyms:** Nebcin

**CPT Codes:** 80200 - Tobramycin

**Test Includes:** Tobramycin concentration reported in ug/mL.

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***Logistics***

**Test Indications:** Useful for peak therapeutic drug monitoring (TDM). Tobramycin is an aminoglycoside, which is a polycationic agent that kills aerobic gram-negative bacteria. For patients on extended interval (q24hr) 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 two levels at 2 hours and 8 hours after the end of the 30 min infusion of the 2nd dose.

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***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

<b>Collection:</b>	Routine blood collection. Mix tubes containing anticoagulant by gentle inversion.
<b>Special Processing:</b>	Lab Staff: Centrifuge specimen, remove serum/plasma aliquot into a plastic sample cup. Store at refrigerated temperature.
<b>Patient Preparation:</b>	None
<b>Sample Rejection:</b>	Mislabeled or unlabeled specimen

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***Interpretive***

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

<b>Peak Level, Extended Interval (q24hr) Dosing</b>	
Therapeutic concentration:	20-40 ug/mL

**Critical Values:** >40 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.

