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**Lab Dept:** Chemistry

**Test Name:** TOBRAMYCIN LEVEL, SERUM

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***General Information***

**Lab Order Codes:** TOBR

**Synonyms:** Nebcin

**CPT Codes:** 80200 - Tobramycin

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

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***Logistics***

**Test Indications:** Useful for therapeutic drug monitoring (TDM). Tobramycin is an aminoglycoside, which is a polycationic agent that kills aerobic gram-negative bacteria.

**Lab Testing Sections:** Chemistry

**Phone Numbers:** MIN Lab: 612-813-6280

STP Lab: 651-220-6550

**Test Availability:** Daily, 24 hours

**Turnaround Time:** 2 hours

**Special Instructions:** Peak levels should be drawn 30-60 minutes after infusion of the drug. Trough levels should be drawn just before next dose. Indicate whether specimen is a peak or trough level.

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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

**Collection:** Routine blood collection. Mix tubes containing anticoagulant by gentle inversion. Indicate peak or trough on specimen label.

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

**Patient Preparation:** None

**Sample Rejection:** Mislabeled or unlabeled specimen

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***Interpretive***

**Reference Range:**

<b>Peak</b>	
Therapeutic concentration:	4 - 8 ug/mL
<b>Trough</b>	
Therapeutic concentration:	<2 ug/mL generally indicates elimination of the drug

**Critical Values:** >10 ug/mL

**Limitations:** Patients receiving Kanamycin and other structurally similar aminoglycosides should not rely on this method.

**Methodology:** Particle Enhanced Turbidimetric Inhibition Immunoassay (PETINIA)

**References:** TOBR Flex® reagent cartridge insert sheet Siemens Healthcare Diagnostics Inc (2010-01-22) PN 717014.001 – US, Rev G

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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

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

**Updates:** 2/9/2016: Update alt tube type