
Lab Dept: Chemistry

Test Name: VANCOMYCIN LEVEL, SERUM

General Information

Lab Order Codes: VANC

Synonyms: Vancocin®

CPT Codes: 80202 - Vancomycin

Test Includes: Vancomycin concentration in ug/mL

Logistics

Test Indications: Useful for therapeutic drug monitoring (TDM). Vancomycin is a glycopeptide that is a bactericidal agent against gram-positive bacteria and some gram-negative cocci. Vancomycin is important in the treatment of cephalosporin and methicillin-resistant organisms.

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 20-30 minutes after the end of a 60 minute infusion. Trough levels should be drawn within 30 minutes prior to giving a subsequent dose.

Specimen

Specimen Type: Blood

Container: Green top (Li Heparin) tube, **preferred**
Alternate: 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. See Special Instructions regarding peak/trough information.
Special Processing:	Lab Staff: Centrifuge specimen, remove serum/plasma aliquot into plastic sample cup. Store at refrigerated temperatures.
Patient Preparation:	None
Sample Rejection:	Mislabeled or unlabeled specimen

Interpretive

Reference Range:	Peak Values:	
	Therapeutic concentration:	30 - 40 ug/mL
	Trough Values:	
Critical Values:	Therapeutic concentration:	<5 - 10 ug/mL
	Peak Values:	
	Toxic concentration:	>50 ug/mL
Critical Values:	Trough Values:	
	Toxic concentration:	>50 ug/mL

Limitations: N/A

Methodology: Particle Enhanced Turbidimetric Inhibition Immunoassay (PETINIA)
References: VANC Flex® reagent cartridge insert sheet (2009-05-27) Siemens Healthcare Diagnostics Inc, PN 717086.001 – US, Rev F

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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 92618

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

