
Lab Dept: Chemistry

Test Name: AMIKACIN LEVEL

General Information

Lab Order Codes: AMIM

Synonyms: Amikin®

CPT Codes: 80150 - Amikacin

Test Includes: Amikacin level reported in mcg/mL.

Logistics

Test Indications: Useful for therapeutic drug monitoring

Lab Testing Sections: Chemistry - Sendouts

Referred to: Mayo Medical Laboratories (Test: RAMIK)

Phone Numbers: MIN Lab: 612-813-6280

STP Lab: 651-220-6550

Test Availability: Daily, 24 hours

Turnaround Time: 1 - 2 days; test performed daily

Special Instructions: **Peak Level:** Draw 30 - 60 minutes after last dose

Trough Level: Draw immediately before next dose

Specimen

Specimen Type: Blood

Container: SST (Gold, marble or red) tube

Draw Volume: 1.5 mL (Minimum: 1 mL) blood

Processed Volume: 0.5 mL (Minimum: 0.25 mL) serum

Collection: Routine venipuncture

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|-----------------------------|---|
| Special Processing: | Lab Staff: Centrifuge specimen within 2 hours of collection, remove serum into a screw-capped round bottom plastic vial. Store and ship at refrigerated temperatures. Forward promptly. |
| Patient Preparation: | None |
| Sample Rejection: | Mislabeled or unlabeled specimen; specimens other than serum; gross hemolysis; gross lipemia; grossly icteric |

Interpretive

Reference Range: Therapeutic trough concentrations: <8 mcg/mL
Therapeutic peak concentrations: 25.0 – 35.0 mcg/mL

Critical Values: Toxic peak: >40.0 mcg/mL
Toxic trough: >10.0 mcg/mL

Limitations: N/A

Methodology: Kinetic interaction of microparticles in solution (KIMS)

References: [Mayo Medical Laboratories Web Page](#) (August 2013)

Updates: 1/28/2010: Plasma no longer accepted at MML. Units changed from ug to mcg. Trough range previously listed at 5 – 10 ug/mL.
8/13/2013: Therapeutic peak range previously listed as 20-25 mcg/mL
6/26/15: Method change, previously listed as Enzyme-Multiplied Immunoassay Technique (EMIT), storage update, previously frozen.
12/12/2017: Updated collection container.