

Amikacin Assay

Synonyms

Clinical Indication

For multiple daily Amikacin dosing, levels should be taken as follows:

- Pre-dose: immediately prior to the drug being given
- Post-dose: 1 hour after dose

It is acceptable, and preferable, to send pre- and post-dose samples together, with one request form, but the samples **MUST** be clearly labelled as pre- or post-dose and with the time of collection.

Part of Profile / See Also

Request Form

Combined Pathology manual Blood form or ICE request with date and time blood sample collected.

Availability / Frequency of Analysis

On request.

Turnaround Time

Performed on the same day within 2 hours of receipt in the laboratory

Patient Preparation

Multi dose regimens: dosage should be 12 hourly.
First assays should be undertaken on the third or fourth doses.

Sample Requirements

Specimen Type

Serum

Volume

2 ml

Container



Yellow top (SST) tube



Or Paediatric Yellow top (SST) tube

Samples should be transported to laboratory immediately.

Reference Range & Units

For multi-dose regimen:

Pre-dose - <10.0 mg/L (multiple dose regime)

Post-dose - 20.0 - 25.0 mg/L (multiple dose regime)

Interferences

Grossly haemolysed, contaminated or highly lipaemic samples.

Lithium heparin may interfere with amikacin measurement.

Interpretation & Clinical

Decision Value (if applicable)

Results >20mg/L will be communicated to the requestor

References

Test code

AMIK

Lab Handling

Perform the assay as soon possible.