

Client: Example Client ABC123
123 Test Drive
Salt Lake City, UT 84108
UNITED STATES

Physician: Doctor, Example

Patient: Patient, Example

DOB: 12/8/1939
Gender: Male
Patient Identifiers: 01234567890ABCD, 012345
Visit Number (FIN): 01234567890ABCD
Collection Date: 00/00/0000 00:00

Antimicrobial Level - Streptomycin by HPLC, Serum or Plasma

ARUP test code 2009214

Streptomycin - Dose 500 mg im qd
Performed at: National Jewish Center, Advanced Diag. Lab, 1400 Jackson St., Denver, CO 80206

Streptomycin - Time/Date, Last Dose 10/06/2019 0912
Performed at: National Jewish Center, Advanced Diag. Lab, 1400 Jackson St., Denver, CO 80206

Antimicrobial Level - Streptomycin S/P 79.29 mcg/mL
Performed at: National Jewish Center, Advanced Diag. Lab, 1400 Jackson St., Denver, CO 80206

Streptomycin - Comment See Note

H=High, L=Low, *=Abnormal, C=Critical

Drug Level	Conc.	Unit	Flags
Streptomycin Level	79.29	mcg/mL	Crucial
by HPLC			

Expected sample type received.

Test Name: Streptomycin Level
Specimen Type: Serum
Time/Date of Last Dose: 10/06/2019 0912
Dose: 500 mg im qd
Streptomycin Level: 79.29 mcg/mL

Result Comment:
Result is a crucial value. It is above the analytical measurable range. Drug concentrations above the therapeutic range may have adverse effects.

Interpretation:
The target range for conventional treatment of mycobacterial infections is 35 to 45 mcg/mL approximately 1 hour after intramuscular injection or 1 hour after the end of intravenous infusion.

The target range for high dose, 3 times weekly treatment of mycobacterial infections is 65 to 80 mcg/mL approximately 1 hour after intramuscular injection or 1 hour after the end of intravenous infusion.

To allow for drug distribution, samples are drawn 2 hours after IV infusion or IM injection. These samples will often display concentrations below the stated ranges. The patient's maximum concentration can be back-calculated from 2 measured concentrations using linear regression. The patient's elimination rate constant can also be calculated.

In patients with normal renal function, conventional doses of 12 to 15 mg/kg are often used daily or 5 times weekly; high dose therapy of 22 to 25 mg/kg should be used 2 to 3 times weekly.

Streptomycin is renally cleared. Renal dysfunction may result in elevated streptomycin concentrations and this drug should be used cautiously in these patients. Carefully monitor audiogram and BUN, creatinine, magnesium, potassium, and calcium concentrations at least once monthly.

Samples drawn more than 2 hours after the usual peak will be lower than the ranges listed above.

If the time of the dose and the blood draw were not accurately recorded, accurate interpretation of the concentration is not possible.

Ronald J. Harbeck, PhD, D(ABMLI), FAAM
Medical Director, Advanced Diagnostics Laboratories

The performance characteristics for this test have been validated by Advanced Diagnostic Laboratories at National Jewish Health. It has not been cleared or approved by the US Food and Drug Administration.

The results are not intended to be used as the sole means for clinical diagnosis or patient management decisions. This laboratory is certified under the Clinical Laboratory Improvement Amendments of 1988 (CLIA 88) as qualified to perform high complexity clinical laboratory testing.
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H=High, L=Low, *=Abnormal, C=Critical

Streptomycin - Specimen

Serum

Performed at: National Jewish Center, Advanced Diag. Lab, 1400 Jackson St., Denver, CO 80206

VERIFIED/REPORTED DATES

Procedure	Accession	Collected	Received	Verified/Reported
Streptomycin - Dose	19-280-151468	00/00/0000 00:00	00/00/0000 00:00	00/00/0000 00:00
Streptomycin - Time/Date, Last Dose	19-280-151468	00/00/0000 00:00	00/00/0000 00:00	00/00/0000 00:00
Antimicrobial Level - Streptomycin S/P	19-280-151468	00/00/0000 00:00	00/00/0000 00:00	00/00/0000 00:00
Streptomycin - Comment	19-280-151468	00/00/0000 00:00	00/00/0000 00:00	00/00/0000 00:00
Streptomycin - Specimen	19-280-151468	00/00/0000 00:00	00/00/0000 00:00	00/00/0000 00:00

END OF CHART

H=High, L=Low, *=Abnormal, C=Critical

Unless otherwise indicated, testing performed at: