

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

Physician: Doctor, Example

Patient: Patient, Example

DOB: 10/11/1966
Gender: Female
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 300 MG/0.75ML
Performed By: National Jewish Center, Advanced Diag
1400 Jackson St
Denver, CO 80206

Streptomycin - Time/Date, Last Dose 07/15/2020 0830
Performed By: National Jewish Center, Advanced Diag
1400 Jackson St
Denver, CO 80206

Antimicrobial Level - Streptomycin S/P 23.01 mcg/mL
Performed By: National Jewish Center, Advanced Diag
1400 Jackson St
Denver, CO 80206

Streptomycin - Comment See Note

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

Drug Level	Conc.	Unit	Flags
Streptomycin Level by HPLC	23.01	mcg/mL	

Expected sample type received.

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

Streptomycin - Specimen

Serum

Performed By: National Jewish Center, Advanced Diag
1400 Jackson St
Denver, CO 80206

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

VERIFIED/REPORTED DATES				
Procedure	Accession	Collected	Received	Verified/Reported
Streptomycin - Dose	20-197-109852	00/00/0000 00:00	00/00/0000 00:00	00/00/0000 00:00
Streptomycin - Time/Date, Last Dose	20-197-109852	00/00/0000 00:00	00/00/0000 00:00	00/00/0000 00:00
Antimicrobial Level - Streptomycin S/P	20-197-109852	00/00/0000 00:00	00/00/0000 00:00	00/00/0000 00:00
Streptomycin - Comment	20-197-109852	00/00/0000 00:00	00/00/0000 00:00	00/00/0000 00:00
Streptomycin - Specimen	20-197-109852	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:

ARUP LABORATORIES | 800-522-2787 | aruplab.com
500 Chipeta Way, Salt Lake City, UT 84108-1221
Tracy I. George, MD, Laboratory Director

Patient: Patient, Example
ARUP Accession: 20-197-109852
Patient Identifiers: 01234567890ABCD, 012345
Visit Number (FIN): 01234567890ABCD
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