



INDOFINE Chemical Company, Inc.

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-CERTIFICATE OF ANALYSIS-

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|----------------------------|---|
| Product: | Spectinomycin dihydrochloride pentahydrate |
| Code No: | BIO-354 |
| CAS No: | 22189-32-8 |
| Formula: | $C_{14}H_{24}N_2O_7 \cdot 2ClH_5H_2O$ |
| Batch No: | 434422 |
| Appearance: | White powder |
| Bioassay: | 800 μ g/mg (anhydrous) |
| Assay: | 650 μ g/mg (content of $C_{14}H_{24}N_2O_7$) |
| Loss on drying: | 17.4% |
| pH: | 4.6 |
| Specific optical rotation: | +17.5° |
| Residue on ignition: | 0.06% |
| Bacterial endotoxins: | <0.09IU/mg |
| Expiry date: | April 2015 |
| Pharmacopeia: | Conforms with USP33 |