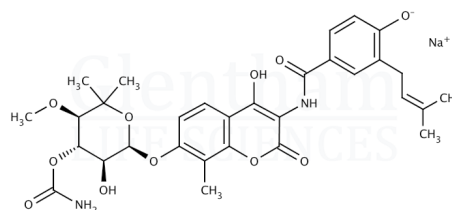


Certificate of Analysis

| | |
|-------------------|-----------------------------------|
| Product Name | Novobiocin sodium salt, USP grade |
| Glentham Code | GP5629 |
| CAS Number | 1476-53-5 |
| EINECS | 216-023-6 |
| MDL Number | MFCD00066541 |
| Additional CAS | 303-81-1 |
| Batch Number | 322IGJ |
| Molecular Weight | 634.61 |
| Molecular Formula | $C_{31}H_{35}N_2NaO_{11}$ |
| Storage Temp. | +4°C |



| Property | Specification | Batch 322IGJ |
|--------------------------------|-----------------------------------|--------------|
| Physical Description | White to off-white powder | Conforms |
| Identification | According to USP | Conforms |
| Specific Optical Rotation | -58 - -50 ° (c=5, 100:1 MeOH:HCl) | -56 ° |
| Crystallinity | According to USP | Conforms |
| pH (2.5% in water) | 6.5 - 8.5 | 7.5 |
| Loss on Drying | ≤ 6.0% (vac., 60°C, 3h) | 0.7% |
| Residual Solvents | According to USP | Conforms |
| Residue on Ignition | 10.5 - 12.0 % | 11.2% |
| Assay | ≥ 850µg/mg (dried basis) | 966µg/mg |
| Purity (HPLC) | ≥ 90.0% | 94.0% |
| Pharmacopoeia Specification(s) | USP | Conforms |

| | |
|-----------------------|------------|
| Specification Version | v1.0 |
| Manufacture Date | 2021-11-12 |
| Re-Test Date | 2029-04-10 |

Glentham Life Sciences confirm that the above referenced product conformed to the information displayed in this document on the quality release date. Please check www.glentham.com or contact us using the details above for the current version of this document.

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