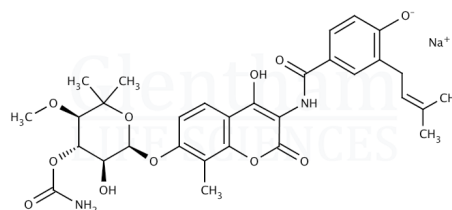


## Certificate of Analysis

|                   |                                   |
|-------------------|-----------------------------------|
| 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](http://www.glentham.com) or contact us using the details above for the current version of this document.

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