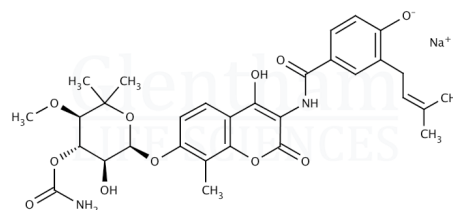


## Certificate of Analysis

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	013QAJ
Molecular Weight	634.61
Molecular Formula	$C_{31}H_{35}N_2NaO_{11}$
Storage Temp.	+4°C



Property	Specification	Batch 013QAJ
Physical Description	White to off-white powder	Off-white powder
Identification	According to USP	Conforms
Specific Optical Rotation	-58 - -50 ° (c=5, 100:1 MeOH:HCl)	-55°
Crystallinity	According to USP	Conforms
pH (2.5% in water)	6.5 - 8.5	8.1
Loss on Drying	≤ 6.0% (vac., 60°C, 3h)	0.8%
Residual Solvents	According to USP	Conforms
Residue on Ignition	10.5 - 12.0 %	10.9%
Assay	≥ 850µg/mg (dried basis)	970µg/mg
Purity (HPLC)	≥ 90.0%	95.4%
Pharmacopoeia Specification(s)	USP	Conforms

Specification Version	v1.0
Manufacture Date	2022-04-03
Re-Test Date	2030-04-10

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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