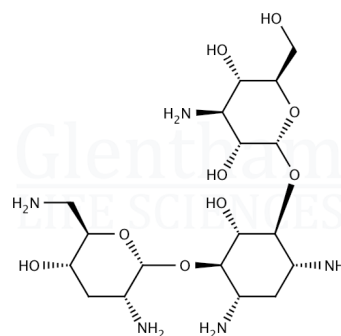


## Certificate of Analysis

Product Name Tobramycin, EP grade  
Glentham Code GA9008  
CAS Number 32986-56-4  
EINECS 251-322-5  
MDL Number MFCD00077885  
PubChem SID 310281029  
Batch Number 619EYM

Molecular Weight 467.5  
Molecular Formula  $C_{18}H_{37}N_5O_9$   
Storage Temp. +4°C



Property	Specification	Batch 619EYM
Physical Description	White to off-white powder	Conforms
Identification	According to EP	Conforms
Assay	97.0 - 102.0 % (anhydrous)	98.3%
pH (10% in water)	9.0 - 11.0	10.42
Specific Optical Rotation	+138 - +148 °	+140.6 °
Any Individual Impurity	≤ 0.5%	≤ 0.25%
Total Impurities	≤ 1.5%	≤ 0.25%
2-Methyl-1-Propanol	≤ 1.0%	Not detected
Water	≤ 8.0%	5.42%
Sulphated Ash	≤ 0.3%	0.06%
Pharmacopoeia Specification(s)	EP	Conforms to EP7.0

Specification Version v1.0  
Manufacture Date 2014-11-11  
Re-Test Date 2021-05-05

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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