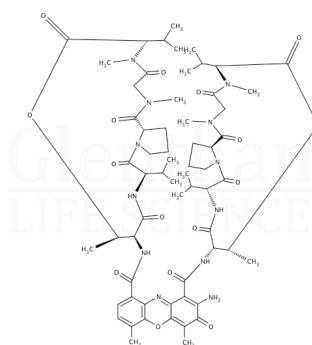


Certificate of Analysis

Product Name Actinomycin D, GlenCell™, suitable for cell culture, USP grade
Glentham Code GA7901
CAS Number 50-76-0
EINECS 200-063-6
MDL Number MFCD00005033
Batch Number 851XOD

Molecular Weight 1255.40
Molecular Formula $C_{62}H_{86}N_{12}O_{16}$
Storage Temp. +4°C



Property	Specification	Batch 851XOD
Physical Description	Red to orange crystalline powder	Conforms
Identification	A, B according to USP	Conforms
Solubility (0.1% in acetonitrile)	Clear, red to orange solution	Conforms
Specific Optical Rotation	-292 - -317 °	-312°
Loss on Drying	≤ 5.0%	3.1%
Bacterial Endotoxins	≤ 100units/mg	76 units/mg
Assay	950 - 1030 µg/mg (C ₆₂ H ₈₆ N ₁₂ O ₁₆ , dried basis)	987µg/mg
Pharmacopoeia Specification(s)	USP	Conforms to USP

Specification Version v1.0
Manufacture Date 2019-04-15
Re-Test Date 2028-04-15

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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