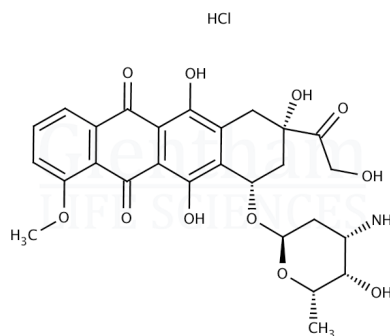


Certificate of Analysis

Product Name	Doxorubicin hydrochloride, USP grade
Glentham Code	GA4969
CAS Number	25316-40-9
EINECS	246-818-3
MDL Number	MFCD00077757
Additional CAS	23214-92-8 (base)
Batch Number	984CKF
Molecular Weight	579.99
Molecular Formula	$C_{27}H_{29}NO_{11} \cdot HCl$
Storage Temp.	+4°C



Property	Specification	Batch 984CKF
Physical Description	Orange-red to red crystalline powder	Red crystalline powder
Assay	≥ 98.0% (anhydrous, solvent-free)	99.4%
Total Impurities	≤ 2.0%	Conforms
Acetone	≤ 0.5%	0.3%
Acetone and Alcohol	≤ 2.5%	1.2%
pH	4.0 - 5.5 (5mg/ml in water)	5.4
Water	≤ 4.0%	2.2%
Pharmacopoeia Specification(s)	USP	Conforms to USP

Specification Version	v1.0
Manufacture Date	2021-11-02
Re-Test Date	2028-05-06

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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