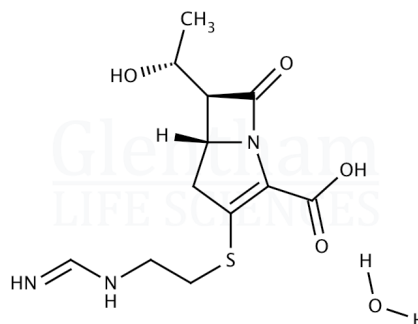


Certificate of Analysis

Product Name	Imipenem monohydrate, 98%, EP grade
Glentham Code	GA7773
CAS Number	74431-23-5
EINECS	264-734-5
MDL Number	MFCD09753321
Additional CAS	64221-86-9
Batch Number	865XSO
Molecular Weight	317.36
Molecular Formula	$C_{12}H_{17}N_3O_4S \cdot H_2O$
Storage Temp.	-20°C



Property	Specification	Batch 865XSO
Physical Description	White, almost white, or pale yellow powder	Pale yellow powder
Identification (IR)	To conform to standard	Conforms
Appearance of Solution	To pass test	Conforms
pH (0.5% in water)	4.5 - 7.5	7.3
Specific Optical Rotation	+90 - +95 °	92 °
Impurity A	≤ 1.0%	0.4%
Any Other Individual Impurity	≤ 0.3%	0.06%
Total Impurities	≤ 1.0% (exc. impurity A)	0.51%
Water (KF)	5.0 - 8.0 %	6.22%
Sulphated Ash	≤ 0.2%	0.09%
Assay (HPLC)	98.0 - 102.0 % (anhydrous basis)	99.6%
Pharmacopoeia Specification(s)	EP	Conforms

Specification Version	v1.0
Manufacture Date	2019-06-05
Re-Test Date	2026-03-13

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.

This document was generated electronically and is therefore valid without signature. © Glentham Life Sciences Ltd, 2025