

Certificate of Analysis



Product Identification		Chemical Structure
Catalog number	HB4322	
Compound name	Ampicillin sodium salt	
Chemical name	(2S,5R,6R)-6-[[[(2R)-2-Amino-2-phenylacetyl]amino]-3,3-dimethyl-7-oxo-4-thia-1-azabicyclo[3.2.0]heptane-2-carboxylic acid sodium salt	
Batch number	E2259-1-2	
Batch molecular formula	C ₁₈ H ₁₈ N ₃ NaO ₄ S	
Batch molecular weight	380.39	

Method	QC requirement	QC Result
HPLC	Reverse Phase HPLC shows >95% purity	Meets specification: 97.0%
NMR	1H NMR in D ₂ O at 400 MHz consistent with structure	Meets specification
Physical appearance	White to off-white solid	Meets specification: White solid
Solubility	Soluble in water (100 mM)	Meets specification
Karl Fisher	KF analysis shows <2% water content	Meets specification: 0.6%

Produced by

Signature

Passed by

Signature

Date

22/06/2023

This product is for RESEARCH USE ONLY and is not intended for therapeutic or diagnostic use. Not for human or veterinary use.