

Certificate of Analysis



Product Identification		Chemical Structure
Catalog number	HB0023	
Compound name	(R)-CPPene	
Chemical name	D-4-[(2E)-3-Phosphono-2-propenyl]-2-piperazinecarboxylic acid	
Batch number	E0800-10-8	
Batch molecular formula	C ₈ H ₁₅ N ₂ O ₅ P · 1.2H ₂ O	
Batch molecular weight	271.81	

Method	QC requirement	QC Result
NMR	1H NMR in D ₂ O at 400 MHz consistent with structure	Meets specification
Mass spectrum	Electrospray negative analysis consistent with structure	Meets specification
Microanalysis	Elemental analysis is within 0.4% for the batch molecular formula	Meets specification
TLC	TLC analysis in 50% PAW:BuOH shows one spot under ninhydrin	Meets specification: R _f =0.1
Physical appearance	White to off-white solid	Meets specification: Off-white solid
Solubility	Soluble in water (100 mM)	Meets specification

Produced by

Signature

Passed by

Signature

Date

04-03-20

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