

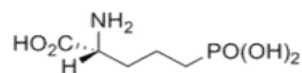
Certificate of Analysis



Product Identification

Catalog number HB0225
Compound name D-AP5
Chemical name D-(-)-2-Amino-5-phosphonopentanoic acid

Batch number E2169-7-4
Batch molecular formula $C_5H_{12}NO_5P$
Batch molecular weight 197.13



Chemical Structure

Method

QC requirement

QC Result

HPLC	Chiral HPLC shows >99% purity	Meets specification: 100%
NMR	¹ H NMR in D ₂ O at 400 MHz consistent with structure and shows <1% of any impurity	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 =0.2
Physical appearance	White to off-white solid	Meets specification: White solid
Solubility	Soluble in water (100 mM)	Meets specification

Produced by

Signature

Passed by

Signature

Date

15/08/2023

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