

Certificate of Analysis

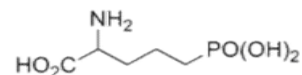


Product Identification

Catalog number HB0251
Compound name DL-AP5
Chemical name DL-2-Amino-5-phosphonopentanoic acid

Batch number E2043-2-8
Batch molecular formula $C_5H_{11}NNaO_5P$
Batch molecular weight 197.13

Chemical Structure



Method

QC requirement

QC Result

HPLC	Chiral HPLC shows >98% purity as two enantiomers	Meets specification: 100%
NMR	¹ H 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 1:1 PAW:BuOH shows one spot with 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

19/10/2022

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