

Certificate of Analysis

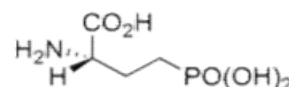


Product Identification

Catalog number HB0370
Compound name L-AP4
Chemical name L-(+)-2-Amino-4-phosphonobutyric acid

Batch number E1325-2-6
Batch molecular formula $C_4H_{10}NO_5P$
Batch molecular weight 183.10

Chemical Structure



Method	QC requirement	QC Result
HPLC	Chiral HPLC shows >99% purity	Meets specification: 100%
NMR	1H NMR in D_2O at 400 MHz consistent with structure and shows <1% of any impurity	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 under ninhydrin	Meets specification: $R_f=0.5$
Physical appearance	White to off-white solid	Meets specification: White solid
Solubility	Soluble in water (5 mM) and in 0.1M NaOH (100 mM)	Meets specification

Produced by Richard Patterson

Signature

Passed by Huw Davies

Signature

Date

09-04-20

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