

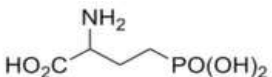
Certificate of Analysis



Product Identification

Catalog number HB0250
Compound name DL-AP4 Sodium salt
Chemical name DL-2-Amino-4-phosphonobutyric acid, sodium salt

Batch number E0922-6-1
Batch molecular formula $C_4H_9NO_5PNa \cdot 1.1H_2O$
Batch molecular weight 224.90



Chemical Structure

Method

QC requirement

QC Result

HPLC	Chiral HPLC shows >99% purity as two isomers	Meets specification: 100%
NMR	¹ H NMR in D ₂ O at 400 MHz consistent with structure and shows >99%	Meets specification
Microanalysis	Elemental analysis is within 0.4% for the batch molecular formula	Meets specification
TLC	TLC analysis in 75% PAW/BuOH shows one spot under ninhydrin	Meets specification: R _f =0.6
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

04-04-19

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