

# Certificate of Analysis



Product Identification		Chemical Structure
Catalog number	HB0249	
Compound name	DL-AP4	
Chemical name	2-Amino-4-phosphonobutyric acid	
Batch number	E00788-2-4	
Batch molecular formula	C <sub>4</sub> H <sub>10</sub> NO <sub>5</sub> P.H <sub>2</sub> O	
Batch molecular weight	201.12	

  

Method	QC requirement	QC Result
HPLC	Chiral HPLC shows >98% purity as two peaks	Meets specification: 100%
NMR	<sup>1</sup> H NMR in D <sub>2</sub> O at 400 MHz consistent with structure	Meets specification
Mass spectrum	Electrospray positive analysis consistent with structure	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 <sub>f</sub> =0.6
Physical appearance	White to off-white solid	Meets specification: White solid
Solubility	Soluble in water (33 mM)	Meets specification

Produced by

Signature

Passed by

Signature

Date

25-06-18

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