Certificate of Analysis

201.12

Product Identification

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

Batch number Batch molecular formula Batch molecular weight E2257-2-17 $C_4H_{10}NO_5P.H_2O$ **hello** bio.

Chemical Structure

CO₂H H₂N₁, H PO(OH)₂

Method	QC requirement	QC Result	
HPLC NMR	Chiral HPLC shows >99% purity 1H NMR in D_2O at 400 MHz consistent with structure and shows <1% of any impurity	Meets specification: 100% 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 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	Aprila
Passed by	Huw Davies	Signature	Som
		Date	06/11/2023

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