

# Certificate of Analysis

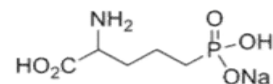


## Product Identification

**Catalog number** HB0252  
**Compound name** DL-AP5 sodium salt  
**Chemical name** DL-2-Amino-5-phosphonopentanoic acid sodium salt

**Batch number** E2043-3-1  
**Batch molecular formula** C<sub>5</sub>H<sub>11</sub>NNaO<sub>5</sub>P·1.5H<sub>2</sub>O  
**Batch molecular weight** 246.13

## Chemical Structure



## Method

## QC requirement

## QC Result

<b>NMR</b>	1H NMR in D <sub>2</sub> O at 400 MHz consistent with structure	Meets specification
<b>Mass spectrum</b>	Electrospray negative analysis consistent with structure	Meets specification
<b>Microanalysis</b>	Elemental analysis is within 0.4% for the batch molecular formula	Meets specification
<b>TLC</b>	TLC analysis in 1:1 PAW:BuOH shows one spot with ninhydrin	Meets Specification; R <sub>f</sub> -0.2
<b>Physical appearance</b>	White to off-white solid	Meets specification: White solid
<b>Solubility</b>	Soluble in water (100 mM)	Meets specification

**Produced by**

Signature

**Passed by**

Signature

Date

04/11/2022

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