

acid

## **CERTIFICATE OF ANALYSIS**

20 Martin Ross Avenue, North York, ON, M3J 2K8, CANADA Tel: (416) 665-9696, Fax: (416) 665-4439

Email:orders.trc@lgcgroup.com Website: www.trc-canada.com

## 1. Identification

Product:

Catalogue Number: L300100 CAS Number: 79055-67-7

L(+)-2-Amino-5-phosphonovaleric

Synonym: L-2-Amino-5-phosphonopentanoic Acid; L-2-

Amino-5-phosphonovaleric Acid; L-AP5; L(+)-2-Amino-5-phosphonopentanoic Acid; (S)-2-Amino-5-phosphonopentanoic Acid; (+)-2-Amino-5-phosphonopentanoic Acid; 5-

Phosphono-L-norvaline;

Structure: HO O NH<sub>2</sub> Molecular Formula:

C5H12NO5P

Molecular weight:

197.13

Source of Product:

Synthetic **Solubility:** 

Aqueous Acid (Slightly),

Water (Slightly)

Purity: 98%

OH

Shipping This Product Is Stable To Be Condition: Shipped At Room Temperature Storage Condition: -20°C

2. Warning

Lot

Number:

Warning 1: Warning 2: Warning 3:

3. Analytical Information

9-WAI-126-1

Tests: Specifications: Results:

Appearance White to Off-White Sticky Solid Off-White Sticky Solid

NMR Conforms to Structure Conforms

Elemental Analysis Conforms %C: 27.64, %H: 6.65, %N: 7.36

MS Conforms to Structure Conforms

Specific Rotation Report Result  $+20.3^{\circ}$  (c = 0.2, 6N HCl)

P NMR Conforms to Structure Conforms

HPLC Purity Report Result 99.86% (ELSD)

Additional Information: N/A

Purity is based on the analytical results of the tests performed. NMR and Elemental Analysis (if available) may have an accuracy of  $\pm$  2%. Isotopic purity is based on mass distribution observed. The contents of the specifications are subject to change without advance notice, and the specification values displayed here are the most up to date values.

4. Signatures

Reviewed By Reviewed By C of A Approved Test Date Retest Date

Nicole Yip Toni Rantanen Christina Gouliaras 7/14/2023 7/12/2027

My Factoria Callera