



## Product Information Certificate

**AR01011**

**L-Aspartic Acid**

**LOT# 423L**

(Uncertainty by purity)

<b>Carbon = 36.10%</b>	<b>± 0.4</b>
<b>Hydrogen = 5.30%</b>	<b>± 0.1</b>
<b>Nitrogen = 10.52%</b>	<b>± 0.1</b>
<b>Oxygen = 48.08%</b>	<b>± 0.5</b>

**(Specific Rotation +25.6°) (HPLC) = 99%**

**F.W. 133.1**

### Notes:

This Organic Analytical Standard (OAS) consists of high purity L-Aspartic Acid for use as a routine working micro analytical reference standard. Refer to your instrument manufacturer's recommendation and/or standard test method for additional uncertainty information. The above values represent high purity (99%) L-Aspartic Acid (C<sub>4</sub>H<sub>7</sub>N<sub>1</sub>O<sub>4</sub>) intended for use as a calibration and or QC check for micro or macro analysis of C, H, N, and O by high temperature combustion or pyrolysis and utilizing TC or IR detection. This may be used for other valid test methods along with proper validation. This bottle contains 100g to be used per your test method.

This is a reference material (RM) and is verified by its purity and empirical stoichiometry in accordance with recommendations of the Analytical Chemistry Section of the International Union of Pure and Applied Chemistry. Keep sealed and store under normal laboratory conditions. This RM expires 15 years from the date of certification. The material used in production of this standard was identified in accordance with ARI-LAB-603. The bottling of this reference material was performed in accordance with ARI-LAB-611.

Remedies for any claimed defect in this product will be limited to product replacement or refund of the purchase price. In no event shall Alpha Resources be liable for incidental or consequential damages.

Certificate date: April 17, 2023

### EXPIRATION DATE:

**THIS RM IS VALID FOR TWO YEARS FROM THE DATE OF OPENING**

**Kent Dyer**

**Chief Chemist, Alpha Resources LLC**