



CERTIFICATE OF ANALYSIS

Product Name: L-Asparagine, Anhydrous
Catalog Number: A031 Lot Number: 12142004
Molecular Formula: $C_4H_8N_2O_3$ CAS Number: 70-47-3
Formula Weight: 132.12

<u>Test</u>	<u>Specifications</u>	<u>Results</u>
Appearance	White Crystalline Powder	PASS
Identification	Pass Test	PASS
Purity	≥ 98 %	99.3 %
Loss on Drying	≤ 0.5 %	0.08 %
Chloride (Cl)	≤ 0.05 %	< 0.02 %
Sulfate (SO ₄)	≤ 0.05 %	< 0.02 %
Solubility (10%, 1N HCl)	Clear, colorless solution	PASS
Specific Rotation		+35.10°
Heavy Metals (as Pb)		< 10 ppm
Arsenic (As)		< 1 ppm
Iron (Fe)		< 10 ppm

Additional Information:

Store at 15 to 30°C

Expiration Date: Aug 31, 2019

This product meets or exceeds the quality standards established by Caisson Laboratories, Inc.

This product is intended for Laboratory Use Only

Becky Kowallis 12/12/2014
Quality Control