



# INDOFINE Chemical Company, Inc.

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## Certificate of Analysis

Catalogue Number	04-2728
Lot Number	001192-110912
Product	<b>L-Asparagine monohydrate</b>
	L-Asn-OH•H <sub>2</sub> O
	(S)-2-Aminosuccinic acid 4-amide monohydrate
CAS Number	5794-13-8
Molecular Formula	C <sub>4</sub> H <sub>8</sub> N <sub>2</sub> O <sub>3</sub> •H <sub>2</sub> O
Molecular Weight	150.1

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Appearance	White crystalline powder
Heavy Metals	< 10 ppm
Arsenic (As <sub>2</sub> O <sub>2</sub> )	< 1 ppm
Anion	Chloride (Cl <sup>-</sup> ): < 0.020% Sulfate (SO <sub>4</sub> <sup>2-</sup> ): < 0.020%
Cation	Ammonium (NH <sub>4</sub> <sup>+</sup> ): < 0.10% Iron (Fe): < 10 ppm
pH	5.00
Optical Rotation	[α] <sub>D</sub> <sup>20</sup> = +35.15°
Infrared Spectrum	Conforms to structure
Transmission	State of solution: 99%
Loss on Drying	11.80%
Other Amino Acids	Chromatographically not detectable
Residue On Ignition	0.03%
Assay by titration	99.65% (anhydrous basis)
Storage	Store at RT

Prepared by:  
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