

# Chem-Impex International, Inc.

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## Certificate of Analysis

<b>Catalogue Number</b>	00026
<b>Lot Number</b>	001192-110912
<b>Product</b>	<b>L-Asparagine monohydrate</b>  L-Asn-OH•H <sub>2</sub> O  (S)-2-Aminosuccinic acid 4-amide monohydrate
<b>CAS Number</b>	5794-13-8
<b>Molecular Formula</b>	C <sub>4</sub> H <sub>8</sub> N <sub>2</sub> O <sub>3</sub> •H <sub>2</sub> O
<b>Molecular Weight</b>	150.1

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

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**Remarks**

See material safety data sheet for additional information

For laboratory use only

**The foregoing is a copy of the Certificate of Analysis as provided by our supplier**



**Bala Kumar**  
**Quality Control Manager**