

# Chem-Impex International, Inc.

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## Certificate of Analysis

<b>Catalogue Number</b>	00454
<b>Lot Number</b>	000424-131106-11015
<b>Product</b>	<b>D-Asparagine hydrate</b>  D-Asn-OH•H <sub>2</sub> O  (R)-2-Aminosuccinic acid 4-amide monohydrate
<b>CAS Number</b>	2058-58-4
<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 powder
<b>Heavy Metals</b>	< 10 ppm
<b>Arsenic (As<sub>2</sub>O<sub>2</sub>)</b>	< 2 ppm
<b>Anion</b>	Chloride (Cl <sup>-</sup> ): ≤ 0.02% Sulfate (SO <sub>4</sub> <sup>2-</sup> ): ≤ 0.02%
<b>Cation</b>	Iron (Fe): < 10 ppm Ammonium (NH <sub>4</sub> <sup>+</sup> ): < 0.1%
<b>Optical Rotation</b>	[α] <sub>D</sub> <sup>20</sup> = -35.5° (C=5 in 5N HCl)
<b>Loss on Drying</b>	11.90%
<b>Residue On Ignition</b>	0.03%
<b>Assay by titration</b>	101.175%
<b>Storage</b>	Store at 0-8 °C

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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**