

# Chem-Impex International, Inc.

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## Certificate of Analysis

<b>Catalogue Number</b>	05887
<b>Lot Number</b>	000424-111203-11020
<b>Product</b>	<b>L-Aspartic acid dimethyl ester hydrochloride</b>

L-Asp(OMe)-OMe•HCl

<b>CAS Number</b>	32213-95-9
<b>Molecular Formula</b>	C <sub>6</sub> H <sub>11</sub> NO <sub>4</sub> •HCl
<b>Molecular Weight</b>	197.66

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<b>Appearance</b>	White to off-white crystalline powder
<b>Solubility</b>	Clear solution (0.3g in 2mL DMF)
<b>Melting Point</b>	115.2-116.1 °C
<b>Water Content (Karl Fisher)</b>	0.54%
<b>Optical Rotation</b>	[α] <sub>D</sub> <sup>20</sup> = +14.8° (C=1 in MeOH)
<b>Infrared Spectrum</b>	Conforms to structure
<b>Analysis by Mass Spectra</b>	Conforms to standard
<b>Loss on Drying</b>	0.19%
<b><sup>1</sup>H NMR</b>	Conforms to structure
<b>Purity by HPLC</b>	98.78%
<b>Storage</b>	Store at 0-8°C
<b>Remarks</b>	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