## **Chem-Impex International, Inc.**

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## Certificate of Analysis

Catalogue Number Lot Number	12218 000424-140424-11417
Product	Z-L-aspartic acid $\beta$ - <i>tert</i> -butyl ester $\alpha$ -methyl ester
	Z-L-Asp(OtBu)-OMe
CAS Number	63327-57-1
Molecular Formula	$C_{17}H_{23}NO_6$
Molecular Weight	337.36
Appearance	White powder
Solubility	Clear solution (0.3g in 2mL DMF)
Melting Point	41.4-41.5 °C
Water Content (Karl Fisher)	0.086%
<b>Optical Rotation</b>	[a] <sub>D</sub> <sup>20</sup> = -22.7° (C=1 in DMF)
Infrared Spectrum	Conforms to structure
Analysis by Mass Spectra	Conforms to standard
<sup>1</sup> H NMR	Conforms to structure
Purity by HPLC	98.01%
Storage	Store at 0-8 °C
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

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Bala Kumar Quality Control Manager