## Chem-Impex International, Inc.

Tel: (630) 766-2112 E-mail: sales@chemimpex.com Shipping and Correspondence: 935 Dillon Drive Wood Dale, IL 60191 Fax: (630) 766-2218 Web site: www.chemimpex.com Manufacturing site: 825 Dillon Drive Wood Dale, IL 60191

## Certificate of Analysis

Catalogue Number	02260
Product	Z-L-threonine methyl ester
Lot Number	120618-12600
	Z-L-Thr-OMe
CAS Number	57224-63-2
	C <sub>13</sub> H <sub>17</sub> NO <sub>5</sub>
Molecular Formula	
Molecular Weight	267.3
Appearance	White powder
Solubility	Clear solution (0.3 g in 2mL MeOH)
Melting Point	91.7-92.3 °C
Water Content (Karl	0.36%
Fisher)	
<b>Optical Rotation</b>	[a] <sub>D</sub> <sup>20</sup> = -18.0° (C=1 in MeOH)
Infrared Spectrum	Conforms to structure
Analysis by Mass Spectra	Conforms to standard
Loss on Drying	0.29%
<sup>1</sup> H NMR	Conforms to structure
<b>Purity by HPLC</b>	98.66%
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