



# INDOFINE Chemical Company, Inc.

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## Certificate of Analysis

Catalogue Number	04-871
Product	<b>Boc-L-serine</b>
Lot Number	000424-151030-31500 Boc-L-Ser-OH Boc-L- $\beta$ -Hydroxyalanine
CAS Number	3262-72-4
Molecular Formula	C <sub>8</sub> H <sub>15</sub> NO <sub>5</sub>
Molecular Weight	205.22

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Appearance	White powder
Solubility	Clear solution (0.3g in 2mL DMF)
Melting Point	90.1-90.5 °C
Water Content (Karl Fisher)	0.097%
Optical Rotation	[ $\alpha$ ] <sub>D</sub> <sup>20</sup> = -8.3° (C=3 in H <sub>2</sub> O)
Infrared Spectrum	Conforms to structure
Analysis by Mass Spectra	Conforms to standard
Loss on Drying	0.37% (40 °C, 2 hr)
<sup>1</sup> H NMR	Conforms to structure
D-Enantiomer	0.1470%
Purity by HPLC	99.93%
Storage	Store at 0-8 °C

Prepared by:

*Ramesh Mandadi*

Ramesh Mandadi  
Director of Operations

Reviewed and approved by:

*Sujata Moton*

S. Moton  
VP