



# INDOFINE Chemical Company, Inc.

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## Certificate of Analysis

Catalogue Number	04-1477
Product	L-Glutamic acid $\gamma$ -benzyl ester
Lot Number	000424-180712-10907 L-Glu(OBzl)-OH
CAS Number	1676-73-9
Molecular Formula	C <sub>12</sub> H <sub>15</sub> NO <sub>4</sub>
Molecular Weight	237.3

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Appearance	White to off-white powder
Solubility	Clear solution (0.3 g in 6 mL AcOH)
Melting Point	156.8 - 157.9 °C
Optical Rotation	[ $\alpha$ ] <sub>D</sub> <sup>20</sup> = 20.2° (C=1 in AcOH)
Infrared Spectrum	Conforms to structure
Analysis by Mass Spectra	Conforms to standard
Loss on Drying	0.17% (60 °C, 2h)
<sup>1</sup> H NMR	Conforms to structure
Chiral HPLC	100% (ee)
D-Enantiomer	Not detected
Purity by HPLC	99.60%
Purity by TLC	> 98%
Storage	Store at 0-8 °C

Prepared by:

*Ramesh Mandadi*

Ramesh Mandadi  
Director of Operations

Reviewed and approved by:

*Sujata Moton*

S. Moton  
VP