



INDOFINE Chemical Company, Inc.

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Certificate of Analysis

Catalogue Number	04-684
Product	Boc-L-glutamic acid γ-tert-butyl ester α-N-hydroxysuccinimide ester
Lot Number	000424-180712-30636 Boc-L-Glu(OtBu)-OSu
CAS Number	32886-55-8
Molecular Formula	C ₁₈ H ₂₈ N ₂ O ₈
Molecular Weight	400.4
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Appearance	White powder
Solubility	Clear solution (0.3 g in 2 mL DMF)
Melting Point	142.0 - 142.6 °C
Water Content (Karl Fisher)	0.208%
Optical Rotation	[α] _D ²⁰ = -31.3 ° (C=1 in DMF)
Infrared Spectrum	Conforms to structure
Analysis by Mass Spectra	Conforms to standard
Loss on Drying	0.16% (60 °C, 2h)
¹H NMR	Conforms to structure
Purity by HPLC	99.60%
Storage	Store at 0-8 °C

Prepared by:

Ramesh Mandadi

Ramesh Mandadi
Director of Operations

Reviewed and Approved by:

Sujata Moton

Sujata Moton
VP