



# INDOFINE Chemical Company, Inc.

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## Certificate of Analysis

Catalog Number	04-1490
Product Name	L-Glutamic acid $\tilde{A}$ -t-butyl ester H-Glu(OtBu)-OH
Lot Number	850464/828429
Molecular Formula	C <sub>9</sub> H <sub>17</sub> NO <sub>4</sub>
Molecular Weight	203.2
Assay (T, anhydr.)	100.1%
TLC Purity	>99%
EtOAc:nBuOH:AcOH:H <sub>2</sub> O 2:1:1:1 (v/v/v/v)	
nBuOH:AcOH:H <sub>2</sub> O 3:1:1 (v/v/v)	
Specific Rotation ( $\alpha^{20}_D$ )	+ 9.7° (c=1, H <sub>2</sub> O, anhydr.)
Residue on Ignition (SO <sub>4</sub> )	0.05%
Water (Karl Fischer)	4.4 %
D-enantiomer	< 0.5 %
Storage	Store at 0-5°C