

# Chem-Impex International, Inc.

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## Certificate of Analysis

<b>Catalogue Number</b>	03788
<b>Product</b>	<b>Boc-L-glutamic acid <math>\gamma</math>-tert-butyl ester <math>\alpha</math>-N-hydroxysuccinimide ester</b>
<b>Lot Number</b>	000424-180712-30636 Boc-L-Glu(OtBu)-OSu
<b>CAS Number</b>	32886-55-8
<b>Molecular Formula</b>	C <sub>18</sub> H <sub>28</sub> N <sub>2</sub> O <sub>8</sub>
<b>Molecular Weight</b>	400.4

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<b>Appearance</b>	White powder
<b>Solubility</b>	Clear solution (0.3 g in 2 mL DMF)
<b>Melting Point</b>	142.0 - 142.6 °C
<b>Water Content (Karl Fisher)</b>	0.208%
<b>Optical Rotation</b>	[ $\alpha$ ] <sub>D</sub> <sup>20</sup> = -31.3 ° (C=1 in DMF)
<b>Infrared Spectrum</b>	Conforms to structure
<b>Analysis by Mass Spectra</b>	Conforms to standard
<b>Loss on Drying</b>	0.16% (60 °C, 2h)
<b><sup>1</sup>H NMR</b>	Conforms to structure
<b>Purity by HPLC</b>	99.60%
<b>Storage</b>	Store at 0-8 °C

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**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**



**Bala Kumar**  
**Quality Control Manager**