

# Chem-Impex International, Inc.

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Tel: (630) 766-2112

E-mail: sales@chemimpex.com

Shipping and Correspondence:

935 Dillon Drive

Wood Dale, IL 60191

Fax: (630) 766-2218

Web site: www.chemimpex.com

Manufacturing site:

825 Dillon Drive

Wood Dale, IL 60191

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## Certificate of Analysis

<b>Catalogue Number</b>	12849
<b>Lot Number</b>	000424-180401-22612
<b>Product</b>	<b>Fmoc-L-<math>\beta</math>-glutamic acid 5-<i>tert</i>-butyl ester</b>
	Fmoc-L- $\beta$ -homoaspartic acid 5- <i>tert</i> -butyl ester
<b>CAS Number</b>	209252-17-5
<b>Molecular Formula</b>	C <sub>24</sub> H <sub>27</sub> NO <sub>6</sub>
<b>Molecular Weight</b>	425.48

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<b>Appearance</b>	White to off-white powder
<b>Optical Rotation</b>	[ $\alpha$ ] <sub>D</sub> <sup>20</sup> = + 3.1° (C=1 in MeOH)
<b>Infrared Spectrum</b>	Conforms to structure
<b>Analysis by Mass Spectra</b>	Conforms to standard
<b>Residual Solvents</b>	Not identified
<b>Related Substances</b>	Not identified
<b><sup>1</sup>H NMR</b>	Conforms to structure
<b>Purity by HPLC</b>	99.4% (210 nm) 99% (254 nm)
<b>Storage</b>	Store at 0-8 °C
<b>Remarks</b>	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