

# Chem-Impex International, Inc.

Tel: (630) 766-2112

E-mail: [sales@chemimpex.com](mailto:sales@chemimpex.com)

Shipping and Correspondence:

935 Dillon Drive

Wood Dale, IL 60191

Fax: (630) 766-2218

Web site: [www.chemimpex.com](http://www.chemimpex.com)

Manufacturing site:

825 Dillon Drive

Wood Dale, IL 60191

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## Certificate of Analysis

<b>Catalog Number</b>	02147
<b>Product Name</b>	Z-Asp(OBzl)-OH N <sup>α</sup> -(Benzyloxycarbonyl)-β-(benzyl ester)-L-aspartic acid
<b>Lot Number</b>	32901295
<b>CAS Registry Number</b>	3479-47-8
<b>Molecular Formula</b>	C <sub>19</sub> H <sub>19</sub> NO <sub>6</sub>
<b>Molecular Weight</b>	357.4
<b>Assay (N)</b>	101.3%
<b>(α<sup>20</sup><sub>D</sub>)</b>	+13.° (c=1, DMF)
<b>Assay (Titration)</b>	98.5+%
<b>Assay (TLC)</b>	99+%
<b>Enantiomeric Purity</b>	99+%
<b>Free Amino Acids</b>	<0.2%
<b>Other Amino Acids</b>	0.1%
<b>Residue on Ignition (SO<sub>4</sub>)</b>	0.05%
<b>Loss of Weight</b>	<1%
<b>Water Content (KF)</b>	<0.5%
<b>Ash Content</b>	<0.1%
<b>Remarks</b>	See material safety data sheets for additional information. For laboratory use only.

The foregoing is a copy of the Certificate of Analysis as provided by our supplier



**Sashi Kumar**  
**Quality Control Manager**

