

# Chem-Impex International, Inc.

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## Certificate of Analysis

|                   |                                                                                          |
|-------------------|------------------------------------------------------------------------------------------|
| Catalogue Number  | 04976                                                                                    |
| Product           | <b><math>N^{\alpha}</math>-Fmoc-<math>N^{\beta}</math>-Z-L-2,3-diaminopropionic acid</b> |
| Lot Number        | 000129-06296<br>Fmoc-L-Dap(Z)-OH                                                         |
| CAS Number        | 204316-36-9                                                                              |
| Molecular Formula | $C_{26}H_{24}N_2O_6$                                                                     |
| Molecular Weight  | 460.5                                                                                    |

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|--------------------|--------------------------------------------------------------------------------------|
| Appearance         | White crystalline powder                                                             |
| Melting Point      | 158 - 162 °C                                                                         |
| Optical Rotation   | $[\alpha]_D^{20} = -7.75^{\circ}$ (C=1 in MeOH)                                      |
| Assay by titration | 99.6%                                                                                |
| Purity by HPLC     | 99.4%                                                                                |
| Purity by TLC      | Traces of impurities                                                                 |
| Storage            | Store at 0-8 °C                                                                      |
| Remarks            | See material safety data sheet for additional information<br>For laboratory use only |

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



**Bala Kumar**  
Quality Control Manager