

# Chem-Impex International, Inc.

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## Certificate of Analysis

|                          |                                                                                                                |
|--------------------------|----------------------------------------------------------------------------------------------------------------|
| <b>Catalogue Number</b>  | 12646                                                                                                          |
| <b>Lot Number</b>        | 1                                                                                                              |
| <b>Product</b>           | <b><i>N</i><sup>α</sup>-Trityl-<i>N</i><sup>β</sup>-Fmoc-D-2,3-diaminopropionic acid</b><br>Trt-D-Dap(Fmoc)-OH |
| <b>CAS Number</b>        | 1263047-04-6                                                                                                   |
| <b>Molecular Formula</b> | C <sub>37</sub> H <sub>32</sub> N <sub>2</sub> O <sub>4</sub>                                                  |
| <b>Molecular Weight</b>  | 568.7                                                                                                          |

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|---------------------------|--------------------------------------------------------------------------------------|
| <b>Appearance</b>         | Off-white crystalline powder                                                         |
| <b>Melting Point</b>      | >102 °C (dec.)                                                                       |
| <b>Optical Rotation</b>   | [α] <sub>D</sub> <sup>20</sup> = -35.3° (C=1 in MeOH)                                |
| <b>Assay by titration</b> | 89.9%                                                                                |
| <b>Purity by HPLC</b>     | 99.3%                                                                                |
| <b>Purity by TLC</b>      | Traces of impurities                                                                 |
| <b>Storage</b>            | Store at 0-8 °C                                                                      |
| <b>Remarks</b>            | 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