

# **Chem-Impex International, Inc.**

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## **Certificate of Analysis**

|                                  |                                                                                         |
|----------------------------------|-----------------------------------------------------------------------------------------|
| <b>Catalog Number</b>            | 04153                                                                                   |
| <b>Product Name</b>              | <b>Fmoc-D-Phe(4-I)-OH</b><br>Fmoc-4-iodo-D-phenylalanine<br>Fmoc-p-iodo-D-Phe-OH        |
| <b>Lot Number</b>                | 04153-052306-1                                                                          |
| <b>CAS Registry Number</b>       | 205526-29-0                                                                             |
| <b>Molecular Formula</b>         | C <sub>24</sub> H <sub>20</sub> INO <sub>4</sub>                                        |
| <b>Molecular Weight</b>          | 513.40                                                                                  |
| <b>Melting Point</b>             | 174-176 °C                                                                              |
| <b>Specific Optical Rotation</b> | $\alpha_D^{25} = 21.52^\circ$ (c=1.0, DMF)                                              |
| <b>Purity (HPLC)</b>             | 99%                                                                                     |
| <b>Storage</b>                   | Store at -0°C.                                                                          |
| <b>Remarks</b>                   | See material safety data sheets for additional information.<br>For laboratory use only. |

**Quality Control Manager**

## HPLC Conditions

|                                 |                                             |
|---------------------------------|---------------------------------------------|
| <b>Column</b>                   | Beckman Ultrasphere 5 µm, 250x4.6 mm, 150 Å |
| <b>Guard Column</b>             | Supel Guard LC-18-DB, 2 cm                  |
| <b>Retention Time, min</b>      | 13.43                                       |
| <b>Sample preparation</b>       | 2 mg/1 ml 100% Acetonitrile/Water           |
| <b>Injection volume, µl</b>     | 5                                           |
| <b>Method /Detection at, nm</b> | <b>Gradient</b>                             |
|                                 | 40-90% A(2)                                 |
|                                 | A = 99.9% Water, 0.1% TFA                   |
|                                 | B = 95% Acetonitrile, 4.9% Water, 0.1% TFA  |
|                                 | 30 min, flow rate = 1.0 ml / min            |
| <b>Fmoc40 / 254</b>             |                                             |