

# Chem-Impex International, Inc.

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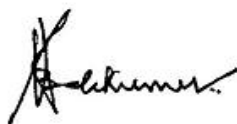
## Certificate of Analysis

|                          |   |
|--------------------------|---|
| <b>Catalogue Number</b>  | 16838   |
| <b>Lot Number</b>        | 000424-210801-23789   |
| <b>Product</b>           | <b>Fmoc-D-2,4,5-trifluorophenylalanine</b><br>Fmoc-(R)-2,4,5-trifluorophenylalanine |
| <b>CAS Number</b>        | 1217837-13-2  |
| <b>Molecular Formula</b> | C <sub>24</sub> H <sub>18</sub> F <sub>3</sub> NO <sub>4</sub>                      |
| <b>Molecular Weight</b>  | 441.4   |

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|                                 |  |
|---------------------------------|--|
| <b>Appearance</b>               | Light grey solid   |
| <b>Optical Rotation</b>         | [α] <sub>D</sub> <sup>20</sup> = + 22 ° (C=1 in DMF)                                 |
| <b>Analysis by Mass Spectra</b> | Conforms to standard   |
| <b><sup>1</sup>H NMR</b>        | Conforms to structure  |
| <b>Chiral HPLC</b>              | 99% (ee)   |
| <b>L-Enantiomer</b>             | 1%   |
| <b>Purity by HPLC</b>           | 99.8%  |
| <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**