

# Chem-Impex International, Inc.

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## Certificate of Analysis

|                         |                                                 |
|-------------------------|-------------------------------------------------|
| <b>Catalogue Number</b> | 07388                                           |
| <b>Lot Number</b>       | PA214(1)-196-89F                                |
| <b>Product</b>          | <b><i>p</i>-Trifluoromethyl-L-phenylalanine</b> |

L-Phe(4-CF<sub>3</sub>)-OH

H-L-Phe(4-trifluoromethyl)-OH

|                   |             |
|-------------------|-------------|
| <b>CAS Number</b> | 114926-38-4 |
|-------------------|-------------|

|                          |                                                                |
|--------------------------|----------------------------------------------------------------|
| <b>Molecular Formula</b> | C <sub>10</sub> H <sub>10</sub> F <sub>3</sub> NO <sub>2</sub> |
|--------------------------|----------------------------------------------------------------|

|                         |        |
|-------------------------|--------|
| <b>Molecular Weight</b> | 233.19 |
|-------------------------|--------|

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|                   |              |
|-------------------|--------------|
| <b>Appearance</b> | White powder |
|-------------------|--------------|

|                          |                       |
|--------------------------|-----------------------|
| <b><sup>1</sup>H NMR</b> | Conforms to structure |
|--------------------------|-----------------------|

|                       |        |
|-----------------------|--------|
| <b>Purity by HPLC</b> | 99.96% |
|-----------------------|--------|

|                      |       |
|----------------------|-------|
| <b>Chiral Purity</b> | > 98% |
|----------------------|-------|

|                |                |
|----------------|----------------|
| <b>Storage</b> | Store at 0-8°C |
|----------------|----------------|

|                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|-------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Additional Information</b> | <p>HPLC Conditions:</p> <ul style="list-style-type: none"><li>a. Mobile Phase: gradient: 14.7 mM NaH<sub>2</sub>PO<sub>4</sub> pH 2.9/acetonitrile</li><li>b. Column: Hypersil BDS C18 250 mm x 4.6 mm 5 µm</li><li>c. Detection: UV 210 nm</li><li>d. Sample Solvent: 1:1 water/acetonitrile</li></ul> <p>Chiral HPLC Conditions:</p> <ul style="list-style-type: none"><li>a. Mobile Phase: 80% MeOH in buffer (0.5% TEA (aq) pH 5.1)</li><li>b. Column: Chirobiotic T column 250 mm x 4.6 mm 5 µm</li><li>c. Detector: UV 220 nm</li><li>d. Sample Solvent: Mobile Phase</li></ul> <p>NMR solvent: D<sub>2</sub>O + K<sub>2</sub>CO<sub>3</sub></p> |
| <b>Country of Origin</b>      | United Kingdom                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |

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**Lot Number: PA214(1)-196-89F**

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**Remarks**

See material safety data sheet for additional information

For laboratory use only

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

A handwritten signature in black ink, appearing to read 'Bala Kumar', with a stylized flourish at the end.

**Bala Kumar**  
**Quality Control Manager**