

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

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## **Certificate of Analysis**

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|----------------------------------------|----------------------------------------------------------------------------------------|
| <b>Catalog Number</b>                  | 07431                                                                                  |
| <b>Product Name</b>                    | <b>H-D-Phe(3-Me)-OH</b><br>3-Methyl-D-phenylalanine<br>H-m-Me-D-Phe-OH                 |
| <b>Lot Number</b>                      | CI6-6                                                                                  |
| <b>Molecular Formula</b>               | C <sub>10</sub> H <sub>13</sub> NO <sub>2</sub>                                        |
| <b>Molecular Weight</b>                | 179.23                                                                                 |
| <b>Appearance</b>                      | Beige powder                                                                           |
| <b>Melting Point</b>                   | 226-231 °C                                                                             |
| <b>(Method AN30)</b>                   | (Analytical Reference: AR74.24)                                                        |
| <b><sup>1</sup>H NMR<sup>[1]</sup></b> | Conforms to structure                                                                  |
| <b>(Method AN39)</b>                   | (Analytical Reference: AR74.25)                                                        |
| <b>HPLC<sup>[2]</sup></b>              | 99.91% Area                                                                            |
| <b>(Method HPLC-972)</b>               | (Analytical Reference: AR72.68)                                                        |
| <b>HPLC<sup>[3]</sup></b>              | > 99%ee                                                                                |
| <b>(Method AN76)</b>                   | (Analytical Reference: AR72.69)                                                        |
| <b>Notes</b>                           |                                                                                        |
| <b>1. NMR Solvent Used</b>             | D <sub>2</sub> O                                                                       |
| <b>2. HPLC Conditions</b>              |                                                                                        |
| <b>a. Column</b>                       | Hypersil BDS C18 250mm x 4.6mm 5 µm                                                    |
| <b>b. Mobile Phase</b>                 | Gradient: 14.7mM NaH <sub>2</sub> PO <sub>4</sub> pH 2.9/Acetonitrile                  |
| <b>c. Detector</b>                     | 210 nm                                                                                 |
| <b>3. Chiral HPLC Conditions</b>       |                                                                                        |
| <b>a. Column</b>                       | Chirobiotic T Column 250mm x 4.6 mm 5µm                                                |
| <b>b. Mobile Phase</b>                 | 20:80 0.5% TEA (aq) pH 5.1/Methanol                                                    |
| <b>c. Detector</b>                     | 220 nm                                                                                 |
| <b>Storage</b>                         | Store at -15°C.                                                                        |
| <b>Remarks</b>                         | See Material Safety Data Sheets for additional information.<br>For Laboratory use only |

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

**Quality Control Manager**