

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

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## **Certificate of Analysis**

|                          |                                                                                         |
|--------------------------|-----------------------------------------------------------------------------------------|
| <b>Catalog Number</b>    | 03405                                                                                   |
| <b>Product Name</b>      | <b>H-Nle-OMe•HCl</b><br>L-Norleucine methyl ester hydrochloride                         |
| <b>Lot Number</b>        | 03405-103105-1a                                                                         |
| <b>Molecular Formula</b> | C <sub>7</sub> H <sub>15</sub> NO <sub>2</sub> •HCl                                     |
| <b>Molecular Weight</b>  | 181.7                                                                                   |
| <b>Melting Point</b>     | 129-132 °C                                                                              |
| <b>Optical Rotation</b>  | $\alpha_D^{20} = +24.37^\circ$ (C=1.2% in MeOH)                                         |
| <b>Purity (HPLC)</b>     | 99%                                                                                     |
| <b>Storage</b>           | Store at 0-5°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**



**Sashi Kumar**  
**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>      | 8.1                                         |
| <b>Sample preparation</b>       | 2 mg/1 ml 50% Acetonitrile/Water            |
| <b>Injection volume, µl</b>     | 5                                           |
| <b>Method /Detection at, nm</b> | <b>Gradient</b>                             |
|                                 | 0-50% 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            |

**Boc0-50 / 210**