

## Analytical Data Sheet

Lot number **1068002**  
not for drug use

Catalog number **E-1105.0025**  
Product number **4000614.0025**  
Product **Ac- Leu- NH<sub>2</sub>**  
Molecular formula **C<sub>8</sub>H<sub>16</sub>N<sub>2</sub>O<sub>2</sub>**  
Relative molecular mass **172.23**

| Tests                               | Results  |
|-------------------------------------|--|
| Appearance                          | white powder   |
| Appearance of solution              | clear, colorless solution (50 mg/mL in methanol)   |
| Identification (elemental analysis) | Theory Found<br>C = 55.8% C = 55.4%<br>H = 9.4% H = 9.2%<br>N = 16.3% N = 16.2%  |
| Identification (TLC)                | complies with authentic material   |
| Specific optical rotation           | $[\alpha]_D^{24} = -21.5^\circ$  |
| Purity (TLC)                        | > 99%  |
| TLC conditions                      | chloroform/methanol/acetic acid/H <sub>2</sub> O 45/13/1/2<br>chloroform/methanol 8/2<br>plate: silicagel 60 F <sub>254</sub><br>detected by: UV, ninhydrin, chlorine-tolidine |
| Assay (elemental analysis)          | 99.8% (Nth 16.27%, Nfd 16.24%)   |
| Water content (KF volumetric)       | 2.4%   |

Latest update: September 28, 2016

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