

# Analytical Data Sheet

Lot number

## 1036856

not for drug use

|                                |                          |
|--------------------------------|--------------------------|
| <b>Catalog Number</b>          | <b>B-3855.0005</b>       |
| <b>Product number</b>          | <b>4039689.0005</b>      |
| <b>Product</b>                 | <b>Fmoc- Homoleu- OH</b> |
| <b>Molecular formula</b>       | $C_{22}H_{25}NO_4$       |
| <b>Relative molecular mass</b> | 367.44                   |

| Tests                                      | Results   |        |       |            |            |           |           |           |           |
|--|---|--------|-------|------------|------------|-----------|-----------|-----------|-----------|
| <b>Appearance</b>                          | white powder  |        |       |            |            |           |           |           |           |
| <b>Appearance of solution</b>              | clear, colorless solution (50mg/ml in methanol)   |        |       |            |            |           |           |           |           |
| <b>Identification (ESI-MS)</b>             | m = 367.4u (average mass)   |        |       |            |            |           |           |           |           |
| <b>Identification (elemental analysis)</b> | <table border="0"> <tr> <td>Theory</td> <td>Found</td> </tr> <tr> <td>C = 71.4 %</td> <td>C = 71.3 %</td> </tr> <tr> <td>H = 6.9 %</td> <td>H = 6.5 %</td> </tr> <tr> <td>N = 3.8 %</td> <td>N = 3.7 %</td> </tr> </table> <p>calc. x 0.15 H<sub>2</sub>O (0.7 %)</p> | Theory | Found | C = 71.4 % | C = 71.3 % | H = 6.9 % | H = 6.5 % | N = 3.8 % | N = 3.7 % |
| Theory                                     | Found   |        |       |            |            |           |           |           |           |
| C = 71.4 %                                 | C = 71.3 %  |        |       |            |            |           |           |           |           |
| H = 6.9 %                                  | H = 6.5 %   |        |       |            |            |           |           |           |           |
| N = 3.8 %                                  | N = 3.7 %   |        |       |            |            |           |           |           |           |
| <b>Identification (TLC)</b>                | complies with authentic material  |        |       |            |            |           |           |           |           |
| <b>Melting point</b>                       | 146 °C  |        |       |            |            |           |           |           |           |
| <b>Purity (HPLC)</b>                       | 99.3% (TFA)   |        |       |            |            |           |           |           |           |
| <b>Related impurities (HPLC)</b>           | < 0.1% Fmoc-β-Ala-OH  |        |       |            |            |           |           |           |           |
| <b>Purity (TLC)</b>                        | > 99%   |        |       |            |            |           |           |           |           |
| <b>TLC conditions</b>                      | chloroform/methanol/acetic acid 90/8/2<br>chloroform/methanol/acetic acid/H <sub>2</sub> O 45/13/1/2<br>plate: silicagel 60 F <sub>254</sub><br>detected by: UV, ninhydrin, TMB   |        |       |            |            |           |           |           |           |
| <b>Enantiomer content (GC)</b>             | 0.8% D-Enantiomer   |        |       |            |            |           |           |           |           |
| <b>Assay (titration)</b>                   | 99.9% (TBAH)  |        |       |            |            |           |           |           |           |
| <b>Water content (KF volumetric)</b>       | 0.3%  |        |       |            |            |           |           |           |           |
| <b>Acetic acid content (IC)</b>            | 0.0226%   |        |       |            |            |           |           |           |           |
| Latest update: May 19, 2011                |   |        |       |            |            |           |           |           |           |