

# Analytical Data Sheet

Lot number

## 1021731

not for drug use

|                                |   |
|--------------------------------|---|
| <b>Catalog Number</b>          | G-3565.0005   |
| <b>Product number</b>          | 4001995.0005  |
| <b>Product</b>                 | H- Val- Phe- OH   |
| <b>Molecular formula</b>       | C <sub>14</sub> H <sub>20</sub> N <sub>2</sub> O <sub>3</sub> |
| <b>Relative molecular mass</b> | 264.32  |

| Tests                                      | Results  |        |       |            |            |           |           |            |            |
|--|--|--------|-------|------------|------------|-----------|-----------|------------|------------|
| <b>Appearance</b>                          | white powder   |        |       |            |            |           |           |            |            |
| <b>Appearance of solution</b>              | clear, colorless solution (50 mg/ml in AcOH)   |        |       |            |            |           |           |            |            |
| <b>Identification (elemental analysis)</b> | <table border="0"> <tr> <td>Theory</td> <td>Found</td> </tr> <tr> <td>C = 62.8 %</td> <td>C = 62.9 %</td> </tr> <tr> <td>H = 7.6 %</td> <td>H = 7.9 %</td> </tr> <tr> <td>N = 10.5 %</td> <td>N = 10.4 %</td> </tr> </table> <p>calc. as x 0.2 H<sub>2</sub>O (1.3%)</p> | Theory | Found | C = 62.8 % | C = 62.9 % | H = 7.6 % | H = 7.9 % | N = 10.5 % | N = 10.4 % |
| Theory                                     | Found  |        |       |            |            |           |           |            |            |
| C = 62.8 %                                 | C = 62.9 %   |        |       |            |            |           |           |            |            |
| H = 7.6 %                                  | H = 7.9 %  |        |       |            |            |           |           |            |            |
| N = 10.5 %                                 | N = 10.4 %   |        |       |            |            |           |           |            |            |
| <b>Identification (TLC)</b>                | complies with authentic material   |        |       |            |            |           |           |            |            |
| <b>Purity (TLC)</b>                        | > 99%  |        |       |            |            |           |           |            |            |
| <b>TLC conditions</b>                      | chloroform/methanol/acetic acid 32% 5/3/1<br>chloroform/methanol/acetic acid/H <sub>2</sub> O 60/45/14/6<br>n-butanol/acetic acid/H <sub>2</sub> O 4/2/2<br>plate: silicagel 60 F <sub>254</sub><br>detected by: UV, ninhydrin, TMB                                      |        |       |            |            |           |           |            |            |
| <b>Assay (elemental analysis)</b>          | 98.2% (Nth 10.60 %, Nfd 10.41 %)   |        |       |            |            |           |           |            |            |
| <b>Water content (KF volumetric)</b>       | 1.4%   |        |       |            |            |           |           |            |            |
| Latest update: January 23, 2009            |  |        |       |            |            |           |           |            |            |