

# Analytical Data Sheet

Lot number

## 1022830

not for drug use

|                                |   |
|--------------------------------|---|
| <b>Catalog Number</b>          | G-2240.0001   |
| <b>Product number</b>          | 4010024.0001  |
| <b>Product</b>                 | H- Gly- Tyr- NH <sub>2</sub> acetate salt                     |
| <b>Molecular formula</b>       | C <sub>13</sub> H <sub>19</sub> N <sub>3</sub> O <sub>5</sub> |
| <b>Relative molecular mass</b> | 297.31  |

| Tests                                      | Results   |        |       |             |             |            |            |             |             |
|--|---|--------|-------|-------------|-------------|------------|------------|-------------|-------------|
| <b>Appearance</b>                          | white powder with small lumps   |        |       |             |             |            |            |             |             |
| <b>Appearance of solution</b>              | clear, colorless solution (50 mg/mL in AcOH 80 %)   |        |       |             |             |            |            |             |             |
| <b>Identification (elemental analysis)</b> | <table border="0"> <tr> <td>Theory</td> <td>Found</td> </tr> <tr> <td>C = 50.68 %</td> <td>C = 51.00 %</td> </tr> <tr> <td>H = 6.61 %</td> <td>H = 6.71 %</td> </tr> <tr> <td>N = 13.64 %</td> <td>N = 13.68 %</td> </tr> </table> <p>calc. as 1 AcOH (19.5 %) x 0.6 H<sub>2</sub>O (3.5 %)</p> | Theory | Found | C = 50.68 % | C = 51.00 % | H = 6.61 % | H = 6.71 % | N = 13.64 % | N = 13.68 % |
| Theory                                     | Found   |        |       |             |             |            |            |             |             |
| C = 50.68 %                                | C = 51.00 %   |        |       |             |             |            |            |             |             |
| H = 6.61 %                                 | H = 6.71 %  |        |       |             |             |            |            |             |             |
| N = 13.64 %                                | N = 13.68 %   |        |       |             |             |            |            |             |             |
| <b>Purity (TLC)</b>                        | > 97%   |        |       |             |             |            |            |             |             |
| <b>TLC conditions</b>                      | n-butanol/acetic acid/H <sub>2</sub> O 4/2/2<br>chloroform/methanol/acetic acid 32% 5/3/1<br>plate: silicagel 60 F <sub>254</sub><br>detected by: UV, ninhydrin, TMB  |        |       |             |             |            |            |             |             |
| <b>Assay (elemental analysis)</b>          | 77.2% (Nth 17.71 %, Nfd 13.68 %)  |        |       |             |             |            |            |             |             |
| <b>Water content (KF volumetric)</b>       | 3.7%  |        |       |             |             |            |            |             |             |
| <b>Acetic acid content (HPLC)</b>          | 19.6%   |        |       |             |             |            |            |             |             |
| Latest update: March 16, 2009              |   |        |       |             |             |            |            |             |             |