

# Analytical Data Sheet

Lot number

## 1020225

not for drug use

|                                |   |
|--------------------------------|---|
| <b>Catalog Number</b>          | C-3675.0005                                     |
| <b>Product number</b>          | 4012096.0005                                    |
| <b>Product</b>                 | Z- D- Glu(OBzl) - OH                            |
| <b>Molecular formula</b>       | C <sub>20</sub> H <sub>21</sub> NO <sub>6</sub> |
| <b>Relative molecular mass</b> | 371.39  |

| Tests                                      | Results  |        |       |             |             |            |            |            |            |
|--|--|--------|-------|-------------|-------------|------------|------------|------------|------------|
| <b>Appearance</b>                          | white powder   |        |       |             |             |            |            |            |            |
| <b>Appearance of solution</b>              | clear, colorless solution (50 mg/ml in MeOH)   |        |       |             |             |            |            |            |            |
| <b>Identification (elemental analysis)</b> | <table border="0"> <tr> <td>Theory</td> <td>Found</td> </tr> <tr> <td>C = 64.68 %</td> <td>C = 64.28 %</td> </tr> <tr> <td>H = 5.70 %</td> <td>H = 5.62 %</td> </tr> <tr> <td>N = 3.77 %</td> <td>N = 3.74 %</td> </tr> </table>       | Theory | Found | C = 64.68 % | C = 64.28 % | H = 5.70 % | H = 5.62 % | N = 3.77 % | N = 3.74 % |
| Theory                                     | Found  |        |       |             |             |            |            |            |            |
| C = 64.68 %                                | C = 64.28 %  |        |       |             |             |            |            |            |            |
| H = 5.70 %                                 | H = 5.62 %   |        |       |             |             |            |            |            |            |
| N = 3.77 %                                 | N = 3.74 %   |        |       |             |             |            |            |            |            |
| <b>Identification (TLC)</b>                | conforms with authentic material   |        |       |             |             |            |            |            |            |
| <b>Melting point</b>                       | 76.1 °C  |        |       |             |             |            |            |            |            |
| <b>Specific optical rotation</b>           | $[\alpha]_D^{24} = +22.9^\circ$ (6 % in 1N KH CO <sub>3</sub> )  |        |       |             |             |            |            |            |            |
| <b>Purity (TLC)</b>                        | > 99%  |        |       |             |             |            |            |            |            |
| <b>TLC conditions</b>                      | chloroform/methanol/toluene/H <sub>2</sub> O 8/8/8/1<br>chloroform/methanol/acetic acid 90/8/2<br>chloroform/ethylacetate/acetic acid 50/50/2<br>plate: silicagel 60 F <sub>254</sub><br>detected by: UV, ninhydrin, chlorine-tolidine |        |       |             |             |            |            |            |            |
| <b>Assay (elemental analysis)</b>          | 99.4% (Cth 64.68 %, Cfd 64.28 %)   |        |       |             |             |            |            |            |            |
| Latest update: November 07, 2008           |  |        |       |             |             |            |            |            |            |