

# Analytical Data Sheet

Lot number

## 1030972

not for drug use

<b>Catalog Number</b>	<b>E-1980.0025</b>
<b>Product number</b>	<b>4002258.0025</b>
<b>Product</b>	<b>H- Gly- OtBu · HCl</b>
<b>Molecular formula</b>	<b>C<sub>6</sub>H<sub>13</sub>NO<sub>2</sub> · HCl</b>
<b>Relative molecular mass</b>	<b>167.64</b>

Tests	Results								
<b>Appearance</b>	white powder								
<b>Appearance of solution</b>	clear, colorless solution (50 mg/ml in methanol)								
<b>Identification (elemental analysis)</b>	<table> <tr> <td>Theory</td> <td>Found</td> </tr> <tr> <td>C = 42.6 %</td> <td>C = 42.2 %</td> </tr> <tr> <td>H = 8.4 %</td> <td>H = 8.2 %</td> </tr> <tr> <td>N = 8.3 %</td> <td>N = 8.1 %</td> </tr> </table> <p>calc. as 0.05 H<sub>2</sub>O (0.5 %)</p>	Theory	Found	C = 42.6 %	C = 42.2 %	H = 8.4 %	H = 8.2 %	N = 8.3 %	N = 8.1 %
Theory	Found								
C = 42.6 %	C = 42.2 %								
H = 8.4 %	H = 8.2 %								
N = 8.3 %	N = 8.1 %								
<b>Identification (TLC)</b>	Rf value in agreement with authentic material								
<b>Melting point</b>	139 °C								
<b>Purity (TLC)</b>	> 99%								
<b>Related impurities (TLC)</b>	< 0.1% H-Gly-OH								
<b>TLC conditions</b>	chloroform/methanol/acetic acid 32% 5/3/1 n-butanol/acetic acid/H <sub>2</sub> O 4/2/2 plate: silicagel 60 F <sub>254</sub> detected by: UV, ninhydrin, chlorine-tolidine								
<b>Assay (elemental analysis)</b>	98.2% (Cth 42.99 %, Cfd 42.23 %)								
<b>Water content (KF volumetric)</b>	0.2%								
<b>Chloride content (titration)</b>	21.8% (AgNO <sub>3</sub> )								
Latest update: May 31, 2010									