

# Analytical Data Sheet

Lot number

## 1020658

not for drug use

<b>Catalog Number</b>	<b>E-1905.0250</b>
<b>Product number</b>	<b>4001646.0250</b>
<b>Product</b>	<b>H- Glu(OMe) – OMe · HCl</b>
<b>Molecular formula</b>	<b>C<sub>7</sub>H<sub>13</sub>NO<sub>4</sub> · HCl</b>
<b>Relative molecular mass</b>	<b>211.65</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 border="0"> <tr> <td>Theory</td> <td>Found</td> </tr> <tr> <td>C = 39.7%</td> <td>C = 39.8%</td> </tr> <tr> <td>H = 6.7%</td> <td>H = 6.6%</td> </tr> <tr> <td>N = 6.6%</td> <td>N = 6.6%</td> </tr> </table>	Theory	Found	C = 39.7%	C = 39.8%	H = 6.7%	H = 6.6%	N = 6.6%	N = 6.6%
Theory	Found								
C = 39.7%	C = 39.8%								
H = 6.7%	H = 6.6%								
N = 6.6%	N = 6.6%								
<b>Identification (TLC)</b>	complies with authentic material								
<b>Melting point</b>	103 °C								
<b>Specific optical rotation</b>	$[\alpha]_D^{24} = +26.8^\circ$ (1% in methanol)								
<b>Purity (TLC)</b>	> 99%								
<b>Related impurities (TLC)</b>	<p>&lt; 0.2% H-Glu(OMe)-OH · HCl</p> <p>&lt; 0.2% H-Glu-OMe · HCl</p> <p>&lt; 0.2% H-Glu-OH · HCl</p>								
<b>TLC conditions</b>	<p>n-butanol/acetic acid/H<sub>2</sub>O 4/2/2</p> <p>ethylacetate/pyridine/acetic acid/H<sub>2</sub>O 60/20/6/11</p> <p>chloroform/methanol/acetic acid 32% 5/3/1</p> <p>plate: silicagel 60 F<sub>254</sub></p> <p>detected by: UV, ninhydrin, chlorine-tolidine</p>								
<b>Assay (elemental analysis)</b>	100.2% (Cth 39.73%, Cfd 39.80%)								
<b>Water content (KF volumetric)</b>	< 0.1%								
<b>Chloride content (titration)</b>	16.7%								

Latest update: November 25, 2008

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