

# Analytical Data Sheet

Lot number

## 1039263

not for drug use

Catalog Number	F-1680.0005
Product number	4001132.0005
Product	H- Glu- NH <sub>2</sub>
Molecular formula	C <sub>5</sub> H <sub>10</sub> N <sub>2</sub> O <sub>3</sub>
Relative molecular mass	146.15

Tests	Results								
Appearance	white powder								
Appearance of solution	clear, colorless solution (50 mg/ml in acetic acid 80 %)								
Identification (elemental analysis)	<table border="0"> <tr> <td>Theory</td> <td>Found</td> </tr> <tr> <td>C = 41.1 %</td> <td>C = 41.0 %</td> </tr> <tr> <td>H = 6.9 %</td> <td>H = 6.7 %</td> </tr> <tr> <td>N = 19.2 %</td> <td>N = 19.2 %</td> </tr> </table>	Theory	Found	C = 41.1 %	C = 41.0 %	H = 6.9 %	H = 6.7 %	N = 19.2 %	N = 19.2 %
Theory	Found								
C = 41.1 %	C = 41.0 %								
H = 6.9 %	H = 6.7 %								
N = 19.2 %	N = 19.2 %								
Identification (TLC)	complies with authentic material								
Melting point	184 °C								
Specific optical rotation	$[\alpha]_D^{24} = +20.4^\circ$ (1 % in water)								
Purity (TLC)	> 99%								
TLC conditions	n-butanol/acetic acid/H <sub>2</sub> O 4/2/2 isopropanol/ammonia conc. 1/1 methanol/chloroform/ammonia 17% 2/2/1 plate: silicagel 60 F <sub>254</sub> detected by: UV, ninhydrin, chlorine-tolidine								
Assay (titration)	99.4% (HClO <sub>4</sub> )								
Water content (KF volumetric)	0.4%								
Latest update: October 19, 2011	Analytical Data Sheet Lot number 1039263								