

Analytical Data Sheet

Lot number

1036252

not for drug use

Catalog Number	G-1940.0005
Product number	4003498.0005
Product	H- Glu(Gly- OH) - OH
Molecular formula	C ₇ H ₁₂ N ₂ O ₅
Relative molecular mass	204.18

Tests	Results								
Appearance	white product								
Appearance of solution	clear, colorless solution (50 mg/mL in water)								
Identification (elemental analysis)	<table border="0"> <tr> <td>Theory</td> <td>Found</td> </tr> <tr> <td>C = 41.2%</td> <td>C = 41.3%</td> </tr> <tr> <td>H = 5.9%</td> <td>H = 5.7%</td> </tr> <tr> <td>N = 13.7%</td> <td>N = 13.8%</td> </tr> </table>	Theory	Found	C = 41.2%	C = 41.3%	H = 5.9%	H = 5.7%	N = 13.7%	N = 13.8%
Theory	Found								
C = 41.2%	C = 41.3%								
H = 5.9%	H = 5.7%								
N = 13.7%	N = 13.8%								
Identification (TLC)	complies with authentic material								
Specific optical rotation	$[\alpha]_D^{24} = +9.5^\circ$ (2% in water)								
Purity (TLC)	> 99%								
TLC conditions	n-butanol/acetic acid/H ₂ O 4/2/2 isopropanol/ammonia conc. 1/1 methanol/chloroform/ammonia 17% 2/2/1 plate: silicagel 60 F ₂₅₄ detected by: UV, ninhydrin, chlorine-tolidine								
Assay (elemental analysis)	100.3% (Nth 13.72%, Nfd 13.76%)								
Assay (titration)	99.8% (HClO ₄)								
Water content (KF volumetric)	0.1%								
Latest update: April 19, 2011									