

Analytical Data Sheet

Lot number **1000017070**
not for drug use

Catalog number **F-1680.0001**
Product number **4001132.0001**
Product **H- Glu- NH₂**
Molecular formula **C₅H₁₀N₂O₃**
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> <thead> <tr> <th>Theory</th> <th>Found</th> </tr> </thead> <tbody> <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> </tbody> </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 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 (titration)	99.4% (HClO ₄)								
Water content (KF volumetric)	0.4%								

Latest update: June 18, 2019

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