

Analytical Data Sheet

Lot number **1071501**
not for drug use

Catalog number **G-1915.0250**
Product number **4000466.0250**
Product **H- Glu- Glu- OH**
Molecular formula $C_{10}H_{16}N_2O_7$
Relative molecular mass 276.25

Tests	Results								
Appearance	white powder								
Appearance of solution	clear, colorless solution (50 mg/ml in acetic acid 40 %)								
Identification (elemental analysis)	<table> <thead> <tr> <th>Theory</th> <th>Found</th> </tr> </thead> <tbody> <tr> <td>C = 43.48 %</td> <td>C = 43.66 %</td> </tr> <tr> <td>H = 5.84 %</td> <td>H = 5.70 %</td> </tr> <tr> <td>N = 10.14 %</td> <td>N = 10.13 %</td> </tr> </tbody> </table>	Theory	Found	C = 43.48 %	C = 43.66 %	H = 5.84 %	H = 5.70 %	N = 10.14 %	N = 10.13 %
Theory	Found								
C = 43.48 %	C = 43.66 %								
H = 5.84 %	H = 5.70 %								
N = 10.14 %	N = 10.13 %								
Identification (TLC)	complies with authentic material								
Specific optical rotation	$[\alpha]_D^{24} = + 17.1^\circ$ (1 % in HCl 0.5 N)								
Purity (TLC)	> 98%								
TLC conditions	n-butanol/acetic acid/H ₂ O 4/2/2 n-butanol/acetic acid/H ₂ O/pyridine 30/6/24/20 isopropanol/ammonia conc. 1/1 ethylacetate/pyridine/acetic acid/H ₂ O 60/60/12/36 plate: silicagel 60 F ₂₅₄ detected by: UV, ninhydrin, chlorine-tolidine								
Assay (elemental analysis)	99.9% (Nth 10.14 %, 10.13 %)								

Latest update: May 02, 2017

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