

Analytical Data Sheet

Lot number **1068463**
not for drug use

Catalog number **G-1890.0001**
Product number **4008606.0001**
Product **H- Gln- Gly- OH**
Molecular formula $C_7H_{13}N_3O_4$
Relative molecular mass 203.20

Tests	Results								
Appearance	white powder								
Appearance of solution	clear, colorless solution (50 mg/mL in water)								
Identification (ESI-MS)	m = 203.2u (average mass)								
Identification (elemental analysis)	<table> <thead> <tr> <th>Theory</th> <th>Found</th> </tr> </thead> <tbody> <tr> <td>C = 41.4%</td> <td>C = 41.1%</td> </tr> <tr> <td>H = 6.5%</td> <td>H = 6.6%</td> </tr> <tr> <td>N = 20.7%</td> <td>N = 20.5%</td> </tr> </tbody> </table>	Theory	Found	C = 41.4%	C = 41.1%	H = 6.5%	H = 6.6%	N = 20.7%	N = 20.5%
Theory	Found								
C = 41.4%	C = 41.1%								
H = 6.5%	H = 6.6%								
N = 20.7%	N = 20.5%								
Identification (TLC)	complies with authentic material								
Melting point	162 °C								
Specific optical rotation	$[\alpha]_D^{24} = +78.6^\circ$ (1.7% in water)								
Purity (TLC)	> 98%								
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)	98.9% (Nth 20.68%, Nfd 20.46%)								
Assay (titration)	99.6% (HClO ₄)								

Latest update: November 03, 2016

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