

Analytical Data Sheet

Lot number **1000009768**
not for drug use

Catalog number **G-3015.0005**
Product number **4001061.0005**
Product **H- Pro- Gly- OH**
Molecular formula **C₇H₁₂N₂O₃**
Relative molecular mass **172.18**

Tests	Results								
Appearance	white powder								
Appearance of solution	clear, colorless solution (50 mg/ml in AcOH 80 %)								
Identification (elemental analysis)	<table> <thead> <tr> <th>Theory</th> <th>Found</th> </tr> </thead> <tbody> <tr> <td>C = 45.21 %</td> <td>C = 45.27 %</td> </tr> <tr> <td>H = 7.33 %</td> <td>H = 7.21 %</td> </tr> <tr> <td>N = 15.06 %</td> <td>N = 15.12 %</td> </tr> </tbody> </table> <p>calc. as 0.765 HCl (7.41 %)</p>	Theory	Found	C = 45.21 %	C = 45.27 %	H = 7.33 %	H = 7.21 %	N = 15.06 %	N = 15.12 %
Theory	Found								
C = 45.21 %	C = 45.27 %								
H = 7.33 %	H = 7.21 %								
N = 15.06 %	N = 15.12 %								
Identification (TLC)	conforms with authentic material								
Specific optical rotation	$[\alpha]_D^{24} = -20.8^\circ$ (1 % in H ₂ O)								
Purity (TLC)	> 99%								
TLC conditions	<p>n-butanol/acetic acid/H₂O 4/2/2 n-butanol/acetic acid/H₂O/pyridine 30/6/24/20 plate: silicagel 60 F₂₅₄ detected by: UV, ninhydrin, chlorine-tolidine</p> <p>isopropanol/ammonia conc. 1/1 plate: HPTLC detected by: UV, ninhydrin, chlorine-tolidine</p>								
Assay (elemental analysis)	93.1% (Nth 16.27 %, Nfd 15.14 %)								
Water content (KF volumetric)	7.4%								

Latest update: December 11, 2018

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