

Analytical Data Sheet

Lot number **1000020240**
not for drug use

Catalog number **E-2300.0005**
Product number **4000855.0005**
Product **H- Pro- NH₂ · HCl**
Molecular formula **C₅H₁₀N₂O · HCl**
Relative molecular mass **150.61**

Tests	Results								
Appearance	white powder								
Appearance of solution	clear, colorless solution (50 mg/ml in MeOH)								
Identification (elemental analysis)	<table> <thead> <tr> <th>Theory</th> <th>Found</th> </tr> </thead> <tbody> <tr> <td>C = 39.9 %</td> <td>C = 39.7 %</td> </tr> <tr> <td>H = 7.4 %</td> <td>H = 7.4 %</td> </tr> <tr> <td>N = 18.6 %</td> <td>N = 18.6 %</td> </tr> </tbody> </table>	Theory	Found	C = 39.9 %	C = 39.7 %	H = 7.4 %	H = 7.4 %	N = 18.6 %	N = 18.6 %
Theory	Found								
C = 39.9 %	C = 39.7 %								
H = 7.4 %	H = 7.4 %								
N = 18.6 %	N = 18.6 %								
Identification (TLC)	complies with authentic material								
Melting point	183.2%								
Specific optical rotation	$[\alpha]_D^{24} = -65.1^\circ$ (1 % in EtOH)								
Purity (TLC)	> 99%								
Related impurities (TLC)	< 0.1% H-Pro-OH								
TLC conditions	n-butanol/acetic acid/H ₂ O 4/2/2 isopropanol/ammonia conc. 1/1 plate: silicagel 60 F ₂₅₄ detected by: UV, ninhydrin, TMB								
Assay (elemental analysis)	98.3% (Nth 18.60%, Nfd 18.28%)								
Water content (KF volumetric)	0.2%								
Chloride content (titration)	23.3% (AgNO ₃)								

Latest update: August 12, 2019

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