

Analytical Data Sheet

Lot number **1067533**
not for drug use

Catalog number **E-2295.0005**
Product number **4000581.0005**
Product **H- Pro- NH₂**
Molecular formula **C₅H₁₀N₂O**
Relative molecular mass **114.15**

Tests	Results								
Appearance	slightly yellowish powder								
Appearance of solution	clear, colorless solution (50 mg/mL in methanol)								
Identification (elemental analysis)	<table> <thead> <tr> <th>Theory</th> <th>Found</th> </tr> </thead> <tbody> <tr> <td>C = 52.2 %</td> <td>C = 52.0 %</td> </tr> <tr> <td>H = 8.9 %</td> <td>H = 8.6 %</td> </tr> <tr> <td>N = 24.4 %</td> <td>N = 24.1 %</td> </tr> </tbody> </table> <p>calc. x 0.05 H₂O (0.8 %)</p>	Theory	Found	C = 52.2 %	C = 52.0 %	H = 8.9 %	H = 8.6 %	N = 24.4 %	N = 24.1 %
Theory	Found								
C = 52.2 %	C = 52.0 %								
H = 8.9 %	H = 8.6 %								
N = 24.4 %	N = 24.1 %								
Identification (TLC)	complies with authentic material								
Melting point	98 °C								
Specific optical rotation	$[\alpha]_D^{24} = -103.6^\circ$ (1 % in ethanol)								
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, TMB								
Enantiomer content (GC)	0.1% H-D-Pro-NH ₂								
Other amino acids (GC)	< 0.3%								
Assay (elemental analysis)	98.2% (Nth 24.54%, Nfd 24.11%)								
Water content (KF volumetric)	0.8%								