

Analytical Data Sheet

Lot number **1053003**
not for drug use

Catalog number **F-1655.0100**
Product number **4002357.0100**
Product **H- Hyp- OH**
Molecular formula **C₅H₉NO₃**
Relative molecular mass **131.13**

Tests	Results								
Appearance	white crystalline powder								
Appearance of solution	clear, colorless solution (50 mg/mL in water)								
Identification (elemental analysis)	<table> <thead> <tr> <th>Theory</th> <th>Found</th> </tr> </thead> <tbody> <tr> <td>C = 45.8%</td> <td>C = 45.8%</td> </tr> <tr> <td>H = 6.9%</td> <td>H = 6.7%</td> </tr> <tr> <td>N = 10.7%</td> <td>N = 10.6%</td> </tr> </tbody> </table>	Theory	Found	C = 45.8%	C = 45.8%	H = 6.9%	H = 6.7%	N = 10.7%	N = 10.6%
Theory	Found								
C = 45.8%	C = 45.8%								
H = 6.9%	H = 6.7%								
N = 10.7%	N = 10.6%								
Identification (TLC)	complies with authentic material								
Specific optical rotation	$[\alpha]_D^{24} = -74.5^\circ$ (4% in water)								
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 chloroform/methanol/acetic acid/H ₂ O 70/42/0.5/10 plate: silicagel 60 F ₂₅₄ detected by: UV, ninhydrin, TMB								
Enantiomer content (GC)	> 99.7% L-trans isomer < 0.1% D-trans isomer < 0.1% L-cis isomer < 0.1% D-cis isomer								
Other amino acids (GC)	< 0.3%								
Assay (elemental analysis)	99.7% (Nth 10.68%, Nfd 10.64%)								