

Analytical Data Sheet

Lot number **1067337**
not for drug use

Catalog number **F-1655.0250**
Product number **4002357.0250**
Product **H- Hyp- OH**
Molecular formula **C₅H₉NO₃**
Relative molecular mass **131.13**

Tests	Results
Appearance	white crystals
Appearance of solution	clear, colorless solution (50 mg/mL in water)
Identification (elemental analysis)	Theory Found C = 45.8% C = 45.8% H = 6.9% H = 7.0% 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 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 10.65%)

Latest update: August 10, 2016

Analytical Data Sheet
Lot number **1067337**