

Analytical Data Sheet

Lot number

1039272

not for drug use

Catalog Number	F-4235.0005
Product number	4032629.0005
Product	H- D- Pen- OH
Molecular formula	C ₅ H ₁₁ NO ₂ S
Relative molecular mass	149.21

Tests	Results								
Appearance	white powder								
Appearance of solution	clear, colorless solution (50 mg/mL in water)								
Identification (elemental analysis)	<table border="0"> <tr> <td>Theory</td> <td>Found</td> </tr> <tr> <td>C = 40.3%</td> <td>C = 40.2%</td> </tr> <tr> <td>H = 7.4%</td> <td>H = 7.0%</td> </tr> <tr> <td>N = 9.4%</td> <td>N = 9.3%</td> </tr> </table>	Theory	Found	C = 40.3%	C = 40.2%	H = 7.4%	H = 7.0%	N = 9.4%	N = 9.3%
Theory	Found								
C = 40.3%	C = 40.2%								
H = 7.4%	H = 7.0%								
N = 9.4%	N = 9.3%								
Identification (TLC)	complies with authentic material								
Specific optical rotation	$[\alpha]_D^{24} = -63.7^\circ$ (1% in 1 N sodium hydroxide)								
Purity (TLC)	> 98%								
TLC conditions	n-butanol/acetic acid/H ₂ O 4/2/2 chloroform/methanol/acetic acid 32% 5/3/1 plate: silicagel 60 F ₂₅₄ detected by: UV, ninhydrin, TMB								
Enantiomer content (GC)	< 0.1% L-Enantiomer								
Other amino acids (GC)	< 0.1%								
Assay (elemental analysis)	99.3% (Nth 9.39%, Nfd 9.32%)								

Latest update: October 24, 2011

Analytical Data Sheet
Lot number **1039272**