

Analytical Data Sheet

Lot number **1073981**
not for drug use

Catalog number **F-2575.0005**
Product number **4030344.0005**
Product **H- D- Aad- OH**
Molecular formula $C_6H_{11}NO_4$
Relative molecular mass 161.16

Tests	Results								
Appearance	white crystalline powder								
Appearance of solution	clear, colorless solution (25 mg/mL in 5 mL HCOOH)								
Identification (elemental analysis)	<table> <thead> <tr> <th>Theory</th> <th>Found</th> </tr> </thead> <tbody> <tr> <td>C = 44.52 %</td> <td>C = 44.04 %</td> </tr> <tr> <td>H = 6.90 %</td> <td>H = 6.97 %</td> </tr> <tr> <td>N = 8.65 %</td> <td>N = 8.61 %</td> </tr> </tbody> </table> <p>calc. as 0.04 H₂O (0.45 %)</p>	Theory	Found	C = 44.52 %	C = 44.04 %	H = 6.90 %	H = 6.97 %	N = 8.65 %	N = 8.61 %
Theory	Found								
C = 44.52 %	C = 44.04 %								
H = 6.90 %	H = 6.97 %								
N = 8.65 %	N = 8.61 %								
Identification (TLC)	complies with authentic material								
Specific optical rotation	$[\alpha]_D^{24} = -23.8^\circ$ (2 % in 5N HCl)								
Purity (TLC)	> 98%								
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% L-enantiomer								
Other amino acids (GC)	< 0.3%								
Assay (titration)	98.9% (HClO ₄)								
Water content (KF volumetric)	0.4%								

Latest update: October 31, 2017

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