

Analytical Data Sheet

Lot number

1025696

not for drug use

Catalog Number	F-1255.0025
Product number	4030335.0025
Product	H- D- Asp- OH
Molecular formula	C ₄ H ₇ NO ₄
Relative molecular mass	133.10

Tests	Results								
Appearance	white powder								
Appearance of solution	clear, colorless solution (50 mg/ml in 1 N HCl)								
Identification (elemental analysis)	<table> <tr> <td>Theory</td> <td>Found</td> </tr> <tr> <td>C = 36.1 %</td> <td>C = 35.8 %</td> </tr> <tr> <td>H = 5.3 %</td> <td>H = 5.4 %</td> </tr> <tr> <td>N = 10.5 %</td> <td>N = 10.4 %</td> </tr> </table>	Theory	Found	C = 36.1 %	C = 35.8 %	H = 5.3 %	H = 5.4 %	N = 10.5 %	N = 10.4 %
Theory	Found								
C = 36.1 %	C = 35.8 %								
H = 5.3 %	H = 5.4 %								
N = 10.5 %	N = 10.4 %								
Identification (TLC)	complies with authentic material								
Specific optical rotation	$[\alpha]_D^{24} = -24.1^\circ$ (5 % in 1 N HCl)								
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)	0.4% H-Asp-OH								
Other amino acids (GC)	0.5% H-Ala-OH (sum of D and L)								
Enantiomer labelling	< 0.3% others								
Assay (elemental analysis)	99.1 % (Nth 10.52 %, Nfd 10.43 %)								
Latest update: August 03, 2009									