

Analytical Data Sheet

Lot number

1021088

not for drug use

Catalog Number	F-2125.0100
Product number	4031299.0100
Product	H- D- Thr- OH
Molecular formula	C ₄ H ₉ NO ₃
Relative molecular mass	119.12

Tests	Results								
Appearance	white crystals								
Appearance of solution	clear, colorless solution (50 mg/mL in 1N HCl)								
Identification (elemental analysis)	<table border="0"> <tr> <td>Theory</td> <td>Found</td> </tr> <tr> <td>C = 40.3%</td> <td>C = 40.4%</td> </tr> <tr> <td>H = 7.6%</td> <td>H = 7.5%</td> </tr> <tr> <td>N = 11.7%</td> <td>N = 11.8%</td> </tr> </table>	Theory	Found	C = 40.3%	C = 40.4%	H = 7.6%	H = 7.5%	N = 11.7%	N = 11.8%
Theory	Found								
C = 40.3%	C = 40.4%								
H = 7.6%	H = 7.5%								
N = 11.7%	N = 11.8%								
Identification (TLC)	complies with authentic material								
Specific optical rotation	+ 15.05 ° (5 % in 1M hydrochloric acid)								
Purity (TLC)	> 99%								
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)	< 0.6% (sum of H-Thr-OH, H-D-allo-Thr-OH and H-allo-Thr-OH)								
Other amino acids (GC)	none detected (< 0.3 %)								
Latest update: January 19, 2009									