

Analytical Data Sheet

Lot number

1039309

not for drug use

Catalog Number	A-1360.0005
Product number	4005010.0005
Product	Boc- D- Thr(Bzl) - OH
Molecular formula	C₁₆H₂₃NO₅
Relative molecular mass	309.36

Tests	Results								
Appearance	slightly yellow powder								
Appearance of solution	clear, colorless solution (50mg/ml in MeOH)								
Identification (elemental analysis)	<table border="0"> <tr> <td>Theory</td> <td>Found</td> </tr> <tr> <td>C = 62.1 %</td> <td>C = 62.2 %</td> </tr> <tr> <td>H = 7.5 %</td> <td>H = 7.4 %</td> </tr> <tr> <td>N = 4.5 %</td> <td>N = 4.5 %</td> </tr> </table>	Theory	Found	C = 62.1 %	C = 62.2 %	H = 7.5 %	H = 7.4 %	N = 4.5 %	N = 4.5 %
Theory	Found								
C = 62.1 %	C = 62.2 %								
H = 7.5 %	H = 7.4 %								
N = 4.5 %	N = 4.5 %								
Identification (TLC)	complies with authentic material								
Melting point	116 ° C								
Specific optical rotation	$[\alpha]_D^{24} = -15.9^\circ$ (1 % MeOH)								
Purity (TLC)	> 99%								
Related impurities (TLC)	< 0.2% Boc-D-Thr-OH								
TLC conditions	toluene/dioxane/acetic acid 95/25/4 chloroform/methanol/acetic acid 85/10/5 plate: silicagel 60 F ₂₅₄ detected by: UV, ninhydrin, TMB								
Enantiomer content (GC)	> 99.6% Boc-D-Thr(Bzl)-OH 0.2% Boc-L-allo-Thr(Bzl)-OH < 0.1% Boc-D-allo-Thr(Bzl)-OH < 0.1% Boc-L-Thr(Bzl)-OH								
Assay (elemental analysis)	99.7% (Cth 62.12%, Cfd 61.90%)								

Latest update: October 27, 2011

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