

Analytical Data Sheet

Lot number **1069925**
not for drug use

Catalog number **A-2305.0100**
Product number **4000124.0100**
Product **Boc- Thr- OH**
Molecular formula $C_9H_{17}NO_5$
Relative molecular mass 219.24

Tests	Results
Appearance	white powder
Appearance of solution	clear, colorless solution (50 mg/mL in methanol)
Identification (IR)	IR spectrum available
Melting point	80 °C
Specific optical rotation	$[\alpha]_D^{24} = -9.0^\circ$ (1 % in acetic acid)
Purity (TLC)	> 99%
Related impurities (TLC)	< 0.1% H-Thr-OH < 0.1% Boc-Thr-Thr-OH
TLC conditions	chloroform/methanol/toluene/H ₂ O 8/8/8/1 chloroform/methanol/acetic acid 77.5/15/7.5 chloroform/methanol/acetic acid/H ₂ O 70/42/0.5/10 plate: silicagel 60 F ₂₅₄ detected by: UV, ninhydrin, TMB
Enantiomer content (GC)	> 99.7% L-Threonine < 0.1% D-Threonine < 0.1% L-allo-Threonine < 0.1% D-allo-Threonine
Assay (titration)	99.5% (TBAH)
Water content (KF volumetric)	0.1%

Latest update: February 03, 2017

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