

Analytical Data Sheet

Lot number **1000004501**
not for drug use

Catalog number **A-2305.0025**
Product number **4000124.0025**
Product **Boc- Thr- OH**
Molecular formula $C_9H_{17}NO_5$
Relative molecular mass 219.24

Tests	Results
Appearance of container	the container is in good condition and the label displays the correct product name
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)	99.8% (TBAH)
Water content (KF volumetric)	0.1%

Latest update: August 13, 2018

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