

Analytical Data Sheet

Lot number **1000025709**
not for drug use

Catalog number **A-1440.0001**
Product number **4009568.0001**
Product **Boc- Thr(tBu) - OH**
Molecular formula $C_{13}H_{25}NO_5$
Relative molecular mass 275.35

Tests	Results
Appearance	white powder
Appearance of solution	clear, colorless solution (50 mg/mL in methanol)
Identification (elemental analysis)	Theory Found C = 56.7% C = 56.6% H = 9.2% H = 9.2% N = 5.1% N = 5.0%
Identification (TLC)	complies with authentic material
Melting point	99 °C
Specific optical rotation	$[\alpha]_D^{24} = +3.9^\circ$ (2% in dimethylformamide)
Purity (TLC)	> 99%
TLC conditions	chloroform/methanol/acetic acid 90/8/2 chloroform/methanol/toluene/H ₂ O 8/8/8/1 toluene/dioxane/acetic acid 95/25/4 plate: silicagel 60 F ₂₅₄ detected by: UV, ninhydrin, chlorine-tolidine
Assay (titration)	99.6% (TBAH)
Water content (KF volumetric)	0.1%

Latest update: December 03, 2019

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