

Analytical Data Sheet

Lot number **1059376**
not for drug use

Catalog number **E-1675.0005**
Product number **4000341.0005**
Product **H- Thr(tBu) - OtBu**
Molecular formula $C_{12}H_{25}NO_3$
Relative molecular mass 231.34

Tests	Results
Appearance	clear, slightly yellow oil
Appearance of solution	clear, colorless solution (50 mg/ml in methanol)
Identification (TLC)	complies with authentic material
Specific optical rotation	$[\alpha]_D^{24} = 3.1^\circ$ (2 % in ethanol)
Purity (TLC)	> 99%
Related impurities (TLC)	< 0.2% H-Thr(tBu)-OH
TLC conditions	Chloroform/methanol/benzene/H ₂ O 8/8/8/1 Chloroform/methanol 9/1 Chloroform/methanol/acetic acid 85/10/5 plate: silicagel 60 F ₂₅₄ detected: UV, ninhydrin, chlorine-tolidine
Enantiomer content (GC)	> 99.7% H-L-Thr(tBu)-OtBu < 0.1% H-D-Thr(tBu)-OtBu < 0.1% H-L-allo-Thr(tBu)-OtBu 0.1% H-D-allo-Thr(tBu)-OtBu
Assay (titration)	96.4% (HClO ₄)

Latest update: May 18, 2015

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