

Analytical Data Sheet

Lot number **1070331**
not for drug use

Catalog number **E-2455.0025**
Product number **4000503.0025**
Product **H- Thr- OMe · HCl**
Molecular formula **C₅H₁₁NO₃ · HCl**
Relative molecular mass **169.61**

Tests	Results
Appearance	white powder
Appearance of solution	clear, colorless solution (50 mg/mL in methanol)
Identification (TLC)	complies with authentic material
Melting point	76 °C
Specific optical rotation	$[\alpha]_D^{24} = -9.5^\circ$ (1% in methanol)
Purity (TLC)	> 99%
Related impurities (TLC)	≤ 0.2% H-Thr-OH
TLC conditions	n-butanol/acetic acid/H ₂ O 4/2/2 chloroform/methanol/acetic acid 32% 5/3/1 ethylacetate/pyridine/acetic acid/H ₂ O 60/30/9/16.5 plate: silicagel 60 F ₂₅₄ detected by: UV, ninhydrin, TMB
Enantiomer content (GC)	< 0.1% D-Threonin < 0.1% L-allo-Threonin < 0.1% D-allo-Threonin
Other amino acids (GC)	not detected
Assay (elemental analysis)	98.5% (Nth 8.26%, Nfd 8.14%)
Water content (KF volumetric)	0.3%
Chloride content (titration)	100.0% (Clth 20.90%, Clfd 20.89%)

Latest update: February 27, 2017

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