

## Analytical Data Sheet

Lot number **1000027565**  
not for drug use

Catalog number **E-2455.0005**  
Product number **4000503.0005**  
Product **H- Thr- OMe · HCl**  
Molecular formula **C<sub>5</sub>H<sub>11</sub>NO<sub>3</sub> · 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 · HCl
TLC conditions	n-butanol/acetic acid/H <sub>2</sub> O 4/2/2 chloroform/methanol/acetic acid 32% 5/3/1 ethylacetate/pyridine/acetic acid/H <sub>2</sub> O 60/30/9/16.5 plate: silicagel 60 F <sub>254</sub> 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)	98.1%(Nth 8.26%; Nfd 8.10%)
Water content (KF volumetric)	0.3%
Chloride content (titration)	100.0%(Clth 20.90%, Clfd 20.89%)

Latest update: February 03, 2020

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