

Analytical Data Sheet

Lot number

1018865

not for drug use

Catalog Number	E-2425.0025
Product number	4004473.0025
Product	H- Thr- NH ₂ · HCl
Molecular formula	C ₄ H ₁₀ N ₂ O ₂ · HCl
Relative molecular mass	154.60

Tests	Results								
Appearance	white powder								
Appearance of solution	clear, colorless solution (50 mg/mL in 50% methanol)								
Identification (elemental analysis)	<table border="0"> <tr> <td>Theory</td> <td>Found</td> </tr> <tr> <td>C = 30.7%</td> <td>C = 30.9%</td> </tr> <tr> <td>H = 7.2%</td> <td>H = 7.1%</td> </tr> <tr> <td>N = 17.9%</td> <td>N = 18.2%</td> </tr> </table> <p>calc. x 0.1 H₂O (1.15%) x 1 HCl (23.21%; Cl- 22.67%)</p>	Theory	Found	C = 30.7%	C = 30.9%	H = 7.2%	H = 7.1%	N = 17.9%	N = 18.2%
Theory	Found								
C = 30.7%	C = 30.9%								
H = 7.2%	H = 7.1%								
N = 17.9%	N = 18.2%								
Specific optical rotation	[α] _D ²⁴ = + 4.7 ° (2% methanol)								
Purity (TLC)	> 99%								
Related impurities (TLC)	< 0.2% H-Thr-OMe								
TLC conditions	chloroform/methanol/acetic acid 32% 5/3/1 methanol/chloroform/ammonia 17% 2/2/1 plate: silicagel 60 F ₂₅₄ detected by: UV, ninhydrin, chlorine-tolidine								
Assay (elemental analysis)	99.0% (Nth 18.12%, Nfd 17.95%)								
Water content (KF volumetric)	1.8%								
Chloride content (titration)	22.4% (AgNO ₃)								
Latest update: October 24, 2008	Analytical Data Sheet Lot number 1018865								