

## Analytical Data Sheet

Lot number **1053983**  
not for drug use

Catalog number **E-2395.0100**  
Product number **4001336.0100**  
Product **H- Ser- OMe · HCl**  
Molecular formula **C<sub>4</sub>H<sub>9</sub>NO<sub>3</sub> · HCl**  
Relative molecular mass **155.58**

Tests	Results
Appearance	white powder
Appearance of solution	clear, colorless solution (50 mg/mL in methanol)
Identification (elemental analysis)	Theory Found C = 30.9% C = 31.1% H = 6.5% H = 6.6% N = 9.0% N = 9.0%
Identification (TLC)	complies with authentic material
Melting point	158 °C
Specific optical rotation	$[\alpha]_D^{24} = +4.6^\circ$ (1.8% in methanol)
Purity (TLC)	> 99%
Related impurities (TLC)	< 0.3% H-Ser-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-enantiomer
Assay (elemental analysis)	100.7% (Cth 30.88%, Cfd 31.09%)
Water content (KF volumetric)	0.5%
Chloride content (titration)	98.8% of theoretical