

## Analytical Data Sheet

Lot number **1066036**  
not for drug use

Catalog number **E-2950.0025**  
Product number **4004981.0025**  
Product **H- Ser- OBzl hydrochloride salt**  
Molecular formula **C<sub>10</sub>H<sub>13</sub>NO<sub>3</sub>**  
Relative molecular mass **195.22**

Tests	Results
Appearance	white powder
Appearance of solution	clear, colorless solution (50 mg/mL in methanol)
Identification (TLC)	complies with authentic material
Melting point	183 °C
Specific optical rotation	$[\alpha]_D^{24} = -4.1^\circ$ (5% in methanol)
Purity (HPLC)	99.2% (TFA)
Related impurities (HPLC)	< 0.1% H-Ser(Bzl)-OBzl
Purity (TLC)	> 99%
Related impurities (TLC)	< 0.2% H-Ser-OH hydrochloride salt
TLC conditions	ethylacetate/pyridine/acetic acid/H <sub>2</sub> O 60/20/6/11 chloroform/methanol/acetic acid 32% 5/3/1 chloroform/methanol/acetic acid 77.5/15/7.5 plate: silicagel 60 F <sub>254</sub> detected by: UV, ninhydrin, TMB
Enantiomer content (GC)	< 0.1% D-Enantiomer
Other amino acids (GC)	< 0.1%
Assay (elemental analysis)	84.8% (Cth 61.53%, Cfd 52.18%)
Chloride content (titration)	15.3% (AgNO <sub>3</sub> )

Latest update: May 26, 2016

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