

Analytical Data Sheet

Lot number **1064890**
not for drug use

Catalog number **C-1340.0025**
Product number **4000429.0025**
Product **Z- Asp- OBzl**
Molecular formula **C₁₉H₁₉NO₆**
Relative molecular mass **357.36**

Tests	Results
Appearance	white powder
Appearance of solution	clear, colorless solution (50 mg/mL in methanol)
Identification (TLC)	complies with authentic material
Melting point	87 °C
Specific optical rotation	$[\alpha]_D^{24} = -10.9^\circ$ (5% in acetic acid)
Purity (HPLC)	99.7% (TFA)
Related impurities (HPLC)	< 0.1% Z-Asp-OH not det. H-Asp-OBzl not det. Z-Asp(OBzl)-OH
Purity (TLC)	> 99%
Related impurities (TLC)	< 0.1% Z-Asp-OH < 0.2% H-Asp-OBzl < 0.1% Z-Asp(OBzl)-OH
TLC conditions	chloroform/methanol/toluene/H ₂ O 8/8/8/1 toluene/dioxane/acetic acid 95/25/4 chloroform/ethylacetate/acetic acid 50/50/2 plate: silicagel 60 F ₂₅₄ detected by: UV, ninhydrin, TMB
Enantiomer content (GC)	< 0.1% D-Enantiomer
Other amino acids (GC)	< 0.2%
Assay (titration)	100.3% (TBAH)
Water content (KF volumetric)	< 0.1%