

## Analytical Data Sheet

Lot number **1075193**  
not for drug use

Catalog number **C-1340.0005**  
Product number **4000429.0005**  
Product **Z- Asp- OBzl**  
Molecular formula  $C_{19}H_{19}NO_6$   
Relative molecular mass 357.36

Tests	Results
Appearance	white powder
Appearance of solution	clear, colorless solution (50 mg/mL in methanol)
Identification (TLC)	Rf value in agreement with authentic material
Melting point	86 °C
Specific optical rotation	$[\alpha]_D^{24} = -10.8^\circ$ (5% in AcOH)
Purity (HPLC)	99.86% (TFA)
Purity (TLC)	> 99%
Related impurities (TLC)	< 0.1% Z-Asp(OBzl)-OH < 0.1% Z-Asp-OH < 0.1% H-Asp-OBzl
TLC conditions	chloroform/methanol/toluene/H <sub>2</sub> O 8/8/8/1 chloroform/ethylacetate/acetic acid 50/50/2 toluene/dioxane/acetic acid 95/25/4 plate: silicagel 60 F <sub>254</sub> detected by: UV, ninhydrin, TMB
Enantiomer content (GC)	< 0.10% D-enantiomer
Other amino acids (GC)	< 0.20%
Assay (titration)	99.3%
Water content (KF volumetric)	0.1%

Latest update: January 16, 2018

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