

## Analytical Data Sheet

Lot number **1072781**  
not for drug use

Catalog number **A-2485.0100**  
Product number **4007622.0100**  
Product **Boc- Asn(Xan) - OH**  
Molecular formula  $C_{22}H_{24}N_2O_6$   
Relative molecular mass 412.44

Tests	Results
Appearance	white powder
Appearance of solution	clear, colorless solution (20 mg/mL in methanol)
Identification (TLC)	complies with authentic material
Melting point	176 °C
Specific optical rotation	$[\alpha]_D^{24} = -2.0^\circ$ (5% in DMF) $[\alpha]_{365}^{24} = -9.5^\circ$ (5% in DMF)
Purity (TLC)	> 99%
Related impurities (TLC)	< 0.1% Boc-Asn-OH < 0.1% Boc-Asn(Xan)-Asn(Xan)-OH < 0.1% H-Asn(Xan)-OH
TLC conditions	chloroform/methanol/toluene/H <sub>2</sub> O 8/8/8/1 chloroform/methanol/acetic acid 32% 5/3/1 chloroform/methanol/acetic acid/H <sub>2</sub> O 45/13/1/2 plate: silicagel 60 F <sub>254</sub> detected by: UV, ninhydrin, TMB
Enantiomer content (GC)	0.2% Boc-D-Asn(Xan)-OH
Assay (titration)	99.1% (TBAH)
Water content (KF volumetric)	0.5%
Acetic acid content (NMR)	< 0.001% (LOQ)

Latest update: July 24, 2017

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