

Analytical Data Sheet

Lot number **1071411**
not for drug use

Catalog number **A-1705.0025**
Product number **4000660.0025**
Product **Boc- Gln- OH**
Molecular formula $C_{10}H_{18}N_2O_5$
Relative molecular mass 246.26

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	116 °C
Specific optical rotation	$[\alpha]_D^{24} = -3.4^\circ$ (2% in ethanol)
Purity (TLC)	> 99%
Related impurities (TLC)	< 0.1% Boc-Gln-Gln-OH < 0.1% H-Gln-OH
TLC conditions	chloroform/methanol/acetic acid 32% 5/3/1 chloroform/methanol/acetic acid 77.5/15/7.5 ethylacetate/pyridine/acetic acid/H ₂ O 60/20/6/11 plate: silicagel 60 F ₂₅₄ detected by: UV, ninhydrin, TMB
Enantiomer content (GC)	< 0.1% Boc-D-Gln-OH
Assay (titration)	99.6% (TBAH)

Latest update: April 26, 2017

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