

## Analytical Data Sheet

Lot number **1071685**  
not for drug use

Catalog number **B-1050.0005**  
Product number **4009730.0005**  
Product **Fmoc- D- Asn- OH**  
Molecular formula  $C_{19}H_{18}N_2O_5$   
Relative molecular mass 354.36

Tests	Results								
Appearance	white powder								
Appearance of solution	clear, colorless solution (50 mg/ml in DMF)								
Identification (elemental analysis)	<table><thead><tr><th>Theory</th><th>Found</th></tr></thead><tbody><tr><td>C = 64.2 %</td><td>C = 64.0 %</td></tr><tr><td>H = 5.1 %</td><td>H = 5.0 %</td></tr><tr><td>N = 7.9 %</td><td>N = 7.8 %</td></tr></tbody></table> calc. as x 0.07 H <sub>2</sub> O (0.35%)	Theory	Found	C = 64.2 %	C = 64.0 %	H = 5.1 %	H = 5.0 %	N = 7.9 %	N = 7.8 %
Theory	Found								
C = 64.2 %	C = 64.0 %								
H = 5.1 %	H = 5.0 %								
N = 7.9 %	N = 7.8 %								
Identification (TLC)	complies with authentic material								
Melting point	194 °C								
Specific optical rotation	$[\alpha]_D^{24} = +12.7^\circ$ ( 1 % DMF)								
Purity (HPLC)	97.3% (TFA)								
Related impurities (HPLC)	< 0.1% Fmoc-D-Asn-D-Asn-OH								
Purity (TLC)	> 98%								
TLC conditions	chloroform/methanol/acetic acid/H <sub>2</sub> O 70/42/0.5/10 chloroform/methanol/acetic acid 32% 5/3/1 ethylacetate/pyridine/acetic acid/H <sub>2</sub> O 60/30/9/16.5 plate: silicagel 60 F <sub>254</sub> detected by: UV, ninhydrin, TMB								
Water content (KF coulometric)	0.31%								

Latest update: May 11, 2017

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