

# Analytical Data Sheet

Lot number

## 1023042

not for drug use

<b>Catalog Number</b>	<b>B-1705.0005</b>
<b>Product number</b>	<b>4009772.0005</b>
<b>Product</b>	<b>Fmoc-Asn(Tmob) - OH</b>
<b>Molecular formula</b>	$C_{29}H_{30}N_2O_8$
<b>Relative molecular mass</b>	534.57

Tests	Results								
<b>Appearance</b>	off-white granular powder								
<b>Appearance of solution</b>	clear solution (5 % in dioxane)								
<b>Identification (elemental analysis)</b>	<table border="0"> <tr> <td>Theory</td> <td>Found</td> </tr> <tr> <td>C = 64.72 %</td> <td>C = 64.63 %</td> </tr> <tr> <td>H = 5.69 %</td> <td>H = 5.83 %</td> </tr> <tr> <td>N = 5.21 %</td> <td>N = 5.27 %</td> </tr> </table> <p>calc. as x 0.2 H<sub>2</sub>O</p>	Theory	Found	C = 64.72 %	C = 64.63 %	H = 5.69 %	H = 5.83 %	N = 5.21 %	N = 5.27 %
Theory	Found								
C = 64.72 %	C = 64.63 %								
H = 5.69 %	H = 5.83 %								
N = 5.21 %	N = 5.27 %								
<b>Identification (TLC)</b>	complies with authentic material								
<b>Melting point</b>	161 °C								
<b>Specific optical rotation</b>	$[\alpha]_D^{24} = +21.4^\circ$ (1 % in dioxane)								
<b>Purity (HPLC)</b>	98.9% (TFA)								
<b>Purity (TLC)</b>	> 98%								
<b>Related impurities (TLC)</b>	<p>&lt; &lt; 0.2% Fmoc-Asn-OH</p> <p>&lt; &lt; 0.2% H-Asn(Tmob)-OH</p>								
<b>TLC conditions</b>	<p>chloroform/methanol/benzene/H<sub>2</sub>O 8/8/8/1</p> <p>chloroform/methanol/acetic acid 90/8/2</p> <p>ethylacetate/pyridine/acetic acid/H<sub>2</sub>O 60/10/3/4</p> <p>benzene/dioxane/acetic acid 95/25/4</p> <p>plate: silicagel 60 F<sub>254</sub></p> <p>detected by: UV, chlorine-tolidine</p>								
<b>Enantiomer content (GC)</b>	0.3% Fmoc-D-Asn(Tmob)-OH								
<b>Assay (elemental analysis)</b>	98.8% (Cth 65.16%, Cfd 64.38%)								
<b>Water content (KF volumetric)</b>	1.1%								

Latest update: March 27, 2009

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