

Analytical Data Sheet

Lot number

1051169

not for drug use

Catalog Number	A-1215.0025
Product number	4000491.0025
Product	Boc- Asn- OH
Molecular formula	$C_9H_{16}N_2O_5$
Relative molecular mass	232.24

Tests	Results								
Appearance	white powder								
Appearance of solution	clear, colorless solution (50 mg/mL in methanol) clear, colorless solution (0.5 mmol/mL in DMF)								
Identification (elemental analysis)	<table border="0"> <tr> <td>Theory</td> <td>Found</td> </tr> <tr> <td>C = 46.6%</td> <td>C = 46.5%</td> </tr> <tr> <td>H = 6.9%</td> <td>H = 6.9%</td> </tr> <tr> <td>N = 12.1%</td> <td>N = 12.0%</td> </tr> </table>	Theory	Found	C = 46.6%	C = 46.5%	H = 6.9%	H = 6.9%	N = 12.1%	N = 12.0%
Theory	Found								
C = 46.6%	C = 46.5%								
H = 6.9%	H = 6.9%								
N = 12.1%	N = 12.0%								
Identification (TLC)	complies with authentic material								
Melting point	172 °C								
Specific optical rotation	$[\alpha]_D^{24} = -7.4^\circ$ (3 % in dimethylformamide)								
Purity (TLC)	> 99%								
Related impurities (TLC)	< 0.1% Boc-Asn-Asn-OH < 0.1% H-Asn-OH < 0.2% Boc-Asp-OH								
TLC conditions	chloroform/methanol/acetic acid 32% 5/3/1 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-Asn-OH								
Other amino acids (GC)	< 0.3%								
Enantiomer content (chiral chromatography)	0.1% D-Enantiomer								
Assay (elemental analysis)	99.9% (Nth 12.06%, Nfd 12.04%)								

Latest update: December 03, 2013

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