

Analytical Data Sheet

Lot number **1000025311**
not for drug use

Catalog number **A-3615.0100**
Product number **4016413.0100**
Product **Boc- Asp- OH**
Molecular formula $C_9H_{15}NO_6$
Relative molecular mass 233.22

Tests	Results								
Appearance	white powder								
Appearance of solution	clear, colorless solution (50 mg/ml in MeOH)								
Identification (elemental analysis)	<table border="0"> <tr> <td>Theory</td> <td>Found</td> </tr> <tr> <td>C = 46.4 %</td> <td>C = 46.0 %</td> </tr> <tr> <td>H = 6.5 %</td> <td>H = 6.4 %</td> </tr> <tr> <td>N = 6.0 %</td> <td>N = 6.0 %</td> </tr> </table>	Theory	Found	C = 46.4 %	C = 46.0 %	H = 6.5 %	H = 6.4 %	N = 6.0 %	N = 6.0 %
Theory	Found								
C = 46.4 %	C = 46.0 %								
H = 6.5 %	H = 6.4 %								
N = 6.0 %	N = 6.0 %								
Identification (TLC)	complies with authentic material								
Melting point	110 ° C								
Specific optical rotation	$[\alpha]_D^{24} = -5.6^\circ$ (1 % MeOH)								
Purity (TLC)	≥ 99%								
Related impurities (TLC)	< 0.2% H-Asp-OH								
TLC conditions	chloroform/methanol/acetic acid 32% 5/3/1 chloroform/methanol/acetic acid/H ₂ O 70/42/0.5/10 ethylacetate/pyridine/acetic acid/H ₂ O 60/10/3/4 plate: silicagel 60 F ₂₅₄ detected by: UV, ninhydrin, TMB								
Enantiomer content (GC)	0.3% D - Enantiomer								
Assay (titration)	97.0% (TBAH)								
Water content (KF volumetric)	0.5%								

Latest update: November 26, 2019

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