

Analytical Data Sheet

Lot number **1065351**
not for drug use

Catalog number **A-4715.0005**
Product number **4050107.0005**
Product **Boc- Dap- OtBu hydrochloride salt**
Molecular formula $C_{12}H_{24}N_2O_4$
Relative molecular mass 260.33

Tests	Results								
Appearance	white powder								
Appearance of solution	clear, colorless solution (50 mg/mL in methanol)								
Identification (elemental analysis)	<table> <thead> <tr> <th>Theory</th> <th>Found</th> </tr> </thead> <tbody> <tr> <td>C = 48.6%</td> <td>C = 48.6%</td> </tr> <tr> <td>H = 8.5%</td> <td>H = 8.3%</td> </tr> <tr> <td>N = 9.4%</td> <td>N = 9.5%</td> </tr> </tbody> </table>	Theory	Found	C = 48.6%	C = 48.6%	H = 8.5%	H = 8.3%	N = 9.4%	N = 9.5%
Theory	Found								
C = 48.6%	C = 48.6%								
H = 8.5%	H = 8.3%								
N = 9.4%	N = 9.5%								
Identification (TLC)	complies with authentic material								
Purity (TLC)	> 99%								
Related impurities (TLC)	< 0.2% Boc-Dap-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 (chiral chromatography)	0.40% D-enantiomer								
Assay (elemental analysis)	87.9% (Nth 10.76%, Nfd 9.46%)								
Water content (KF volumetric)	0.3%								
Acetic acid content (IC)	< 0.002%								
Chloride content (titration)	11.9%								

Latest update: April 12, 2016

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