

Analytical Data Sheet

Lot number **1000010315**
not for drug use

Retest date N/A
 Catalog number **A-1465.0500**
 Product number **4001265.0500**
 Product **Boc- Lys(Z) - OH**
 Molecular formula $C_{19}H_{28}N_2O_6$
 Relative molecular mass 380.44

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 = 60.0%</td> <td>C = 59.9%</td> </tr> <tr> <td>H = 7.4%</td> <td>H = 7.3%</td> </tr> <tr> <td>N = 7.4%</td> <td>N = 7.4%</td> </tr> </tbody> </table>	Theory	Found	C = 60.0%	C = 59.9%	H = 7.4%	H = 7.3%	N = 7.4%	N = 7.4%
Theory	Found								
C = 60.0%	C = 59.9%								
H = 7.4%	H = 7.3%								
N = 7.4%	N = 7.4%								
Identification (TLC)	Rf value in agreement with authentic material								
Melting point	75 °C								
Specific optical rotation	$[\alpha]_D^{24} = -12.0^\circ$ (1% in DMF)								
Purity (TLC)	> 99%								
Related impurities (TLC)	< 0.1% H-Lys(Z)-OH < 0.1% Boc-Lys(Z)-Lys(Z)-OH								
TLC conditions	n-butanol/acetic acid/H ₂ O 4/2/2 toluene/dioxane/acetic acid 95/25/4 chloroform/methanol/toluene/H ₂ O 8/8/8/1 plate: silicagel 60 F ₂₅₄ detected by: UV, ninhydrin, TMB								
Enantiomer content (GC)	< 0.10% D-enantiomer								
Assay (titration)	100.0% (TBAH)								
Water content (KF volumetric)	0.1%								

Latest update: January 03, 2019

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