

Analytical Data Sheet

Lot number **1058804**
not for drug use

Catalog number **C-3035.0005**
Product number **4011118.0005**
Product **Z- D- Lys(Z) - OH**
Molecular formula $C_{22}H_{26}N_2O_6$
Relative molecular mass 414.46

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 = 63.8%</td> <td>C = 63.7%</td> </tr> <tr> <td>H = 6.3%</td> <td>H = 6.3%</td> </tr> <tr> <td>N = 6.8%</td> <td>N = 6.7%</td> </tr> </tbody> </table>	Theory	Found	C = 63.8%	C = 63.7%	H = 6.3%	H = 6.3%	N = 6.8%	N = 6.7%
Theory	Found								
C = 63.8%	C = 63.7%								
H = 6.3%	H = 6.3%								
N = 6.8%	N = 6.7%								
Identification (TLC)	complies with authentic material								
Specific optical rotation	$[\alpha]_D^{24} = +8.4^\circ$ (2% in pyridine)								
Purity (HPLC)	99.3% (TFA)								
Purity (TLC)	> 99%								
TLC conditions	chloroform/ethylacetate/acetic acid 50/50/2 methanol/chloroform/ammonia 17% 2/2/1 chloroform/methanol/acetic acid 90/8/2 plate: silicagel 60 F ₂₅₄ detected by: UV, ninhydrin, chlorine-tolidine								
Assay (titration)	99.5% (TBAH)								
Water content (KF volumetric)	0.2%								

Latest update: April 16, 2015

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