

Analytical Data Sheet

Lot number **1073894**
not for drug use

Catalog number **M-1300.1000**
Product number **4002677.1000**
Product **Z- Lys- SBzl · HCl**
Molecular formula $C_{21}H_{26}N_2O_3S \cdot HCl$
Relative molecular mass 422.98

Tests	Results								
Appearance	white powder								
Appearance of solution	clear, colorless solution (10 % in methanol)								
Identification (elemental analysis)	<table> <thead> <tr> <th>Theory</th> <th>Found</th> </tr> </thead> <tbody> <tr> <td>C = 59.63 %</td> <td>C = 59.98 %</td> </tr> <tr> <td>H = 6.43 %</td> <td>H = 6.37 %</td> </tr> <tr> <td>N = 6.62 %</td> <td>N = 6.61 %</td> </tr> </tbody> </table>	Theory	Found	C = 59.63 %	C = 59.98 %	H = 6.43 %	H = 6.37 %	N = 6.62 %	N = 6.61 %
Theory	Found								
C = 59.63 %	C = 59.98 %								
H = 6.43 %	H = 6.37 %								
N = 6.62 %	N = 6.61 %								
Identification (TLC)	complies with authentic material								
Melting point	110 °C								
Specific optical rotation	$[\alpha]_D^{25} = -43.4^\circ$ (1 % in H ₂ O)								
Purity (TLC)	> 99%								
TLC conditions	n-butanol/acetic acid/H ₂ O 4/2/2 chloroform/methanol/acetic acid 90/8/2 chloroform/methanol/acetic acid(98-100%)/H ₂ O 45/13/1/2 plate: silicagel 60 F ₂₅₄ detected by: UV, ninhydrin, chlorine-tolidine								
Water content (KF volumetric)	< 0.5%								
Chloride content (IC)	8.4%								

Latest update: October 31, 2017

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