

Analytical Data Sheet

Lot number

1042033

not for drug use

Catalog Number	E-1125.1000
Product number	4006108.1000
Product	Ac- Lys- NH₂ · HCl
Molecular formula	C ₈ H ₁₇ N ₃ O ₂ · HCl
Relative molecular mass	223.70

Tests	Results								
Appearance	white powder								
Appearance of solution	clear, colorless solution (50 mg/mL in methanol)								
Identification (elemental analysis)	<table border="0"> <tr> <td>Theory</td> <td>Found</td> </tr> <tr> <td>C = 43.0%</td> <td>C = 42.9%</td> </tr> <tr> <td>H = 8.1%</td> <td>H = 8.0%</td> </tr> <tr> <td>N = 18.8%</td> <td>N = 18.8%</td> </tr> </table>	Theory	Found	C = 43.0%	C = 42.9%	H = 8.1%	H = 8.0%	N = 18.8%	N = 18.8%
Theory	Found								
C = 43.0%	C = 42.9%								
H = 8.1%	H = 8.0%								
N = 18.8%	N = 18.8%								
Identification (TLC)	complies with authentic material								
Melting point	145 °C								
Specific optical rotation	$[\alpha]_{365}^{24} = -27.9^\circ$ (2% in methanol)								
Purity (TLC)	> 99%								
TLC conditions	methanol/chloroform/ammonia 17% 2/2/1 isopropanol/ammonia conc. 1/1 n-butanol/acetic acid/H ₂ O 4/2/2 plate: silicagel 60 F ₂₅₄ detected by: UV, ninhydrin, TMB								
Assay (titration)	99.3% (TBAH)								
Water content (KF volumetric)	0.2%								
Chloride content (titration)	15.8%								
Latest update: May 07, 2012									