

Analytical Data Sheet

Lot number

1036213

not for drug use

Catalog Number	F-1115.0005
Product number	4000591.0005
Product	H- D- Ala- NH ₂ · HCl
Molecular formula	C ₃ H ₈ N ₂ O · HCl
Relative molecular mass	124.57

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 = 29.0%</td> <td>C = 29.4%</td> </tr> <tr> <td>H = 7.3%</td> <td>H = 7.2%</td> </tr> <tr> <td>N = 22.5%</td> <td>N = 22.2%</td> </tr> </table> <p>calc. x 1 HCl (28.5% Cl⁻)</p>	Theory	Found	C = 29.0%	C = 29.4%	H = 7.3%	H = 7.2%	N = 22.5%	N = 22.2%
Theory	Found								
C = 29.0%	C = 29.4%								
H = 7.3%	H = 7.2%								
N = 22.5%	N = 22.2%								
Identification (TLC)	complies with authentic material								
Specific optical rotation	$[\alpha]_D^{24} = -12.1^\circ$ (1% in methanol)								
Purity (TLC)	> 99%								
Related impurities (TLC)	< 0.1% H-D-Ala-OH								
TLC conditions	chloroform/methanol/acetic acid 32% 5/3/1 methanol/chloroform/ammonia 17% 2/2/1 isopropanol/ammonia conc. 1/1 plate: silicagel 60 F ₂₅₄ detected by: UV, ninhydrin, TMB								
Enantiomer content (GC)	< 0.1% L-enantiomer								
Other amino acids (GC)	< 0.3%								
Assay (elemental analysis)	98.9% (Nth 22.49%, Nfd 22.25%)								
Water content (KF coulometric)	0.2%								
Chloride content (titration)	99.8% (Cl th. 28.46% / Cl fd. 28.40%)								
Latest update: April 12, 2011									