

Analytical Data Sheet

Lot number

1015370

not for drug use

Catalog Number	F-1115.0025
Product number	4000591.0025
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 crystalline powder with small clumps								
Appearance of solution	clear, colorless solution (50 mg/ml in MeOH)								
Identification (elemental analysis)	<table border="0"> <tr> <td>Theory</td> <td>Found</td> </tr> <tr> <td>C = 28.93 %</td> <td>C = 28.79 %</td> </tr> <tr> <td>H = 7.28 %</td> <td>H = 6.96 %</td> </tr> <tr> <td>N = 22.49 %</td> <td>N = 22.53 %</td> </tr> </table>	Theory	Found	C = 28.93 %	C = 28.79 %	H = 7.28 %	H = 6.96 %	N = 22.49 %	N = 22.53 %
Theory	Found								
C = 28.93 %	C = 28.79 %								
H = 7.28 %	H = 6.96 %								
N = 22.49 %	N = 22.53 %								
Identification (TLC)	conforms with authentic material								
Melting point	221.9 °C								
Specific optical rotation	$[\alpha]_D^{24} = -11.9^\circ$ (1 % in MeOH)								
Purity (TLC)	> 99%								
Related impurities (TLC)	< 0.2% H-D-Ala-OH								
TLC conditions	chloroform/methanol/acetic acid 32% 5/3/1 methanol/chloroform/ammonia 17% 2/2/1 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)	100.2% (Nth 22.49 %, Nfd 22.53 %)								
Water content (KF coulometric)	0.1%								
Chloride content (titration)	28.3% (AgNO ₃)								

Latest update: October 24, 2008

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