

Analytical Data Sheet

Lot number **1000021498**
not for drug use

Catalog number **F-1130.0001**
Product number **4003756.0001**
Product **H- D- Ala- OtBu · HCl**
Molecular formula **C₇H₁₅NO₂ · HCl**
Relative molecular mass **181.66**

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 = 46.3 %</td> <td>C = 46.3 %</td> </tr> <tr> <td>H = 8.9 %</td> <td>H = 8.8 %</td> </tr> <tr> <td>N = 7.7 %</td> <td>N = 7.7 %</td> </tr> </tbody> </table>	Theory	Found	C = 46.3 %	C = 46.3 %	H = 8.9 %	H = 8.8 %	N = 7.7 %	N = 7.7 %
Theory	Found								
C = 46.3 %	C = 46.3 %								
H = 8.9 %	H = 8.8 %								
N = 7.7 %	N = 7.7 %								
Identification (TLC)	complies with authentic material								
Specific optical rotation	$[\alpha]_{365}^{24} = -14.9^\circ$ (2 % in ethanol)								
Purity (TLC)	> 99%								
Related impurities (TLC)	< 0.2% H-D-Ala-OH								
TLC conditions	n-butanol/acetic acid/H ₂ O 4/2/2 chloroform/methanol/acetic acid/H ₂ O 45/13/1/2 ethylacetate/pyridine/acetic acid/H ₂ O 60/20/6/11 plate: silicagel 60 F ₂₅₄ detected by: UV, ninhydrin, chlorine-tolidine								
Enantiomer content (GC)	0.1% L- Enantiomer								
Assay (elemental analysis)	100.0% (Cth 46.28 %, Cfd 46.30 %)								
Water content (KF volumetric)	0.2%								
Chloride content (titration)	19.5%								

Latest update: September 10, 2019

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