

Analytical Data Sheet

Lot number **1000028340**
not for drug use

Catalog number **F-3470.0001**
Product number **4026826.0001**
Product **H- β - Cyclopropyl- Ala- OH**
Molecular formula **C₆H₁₁NO₂**
Relative molecular mass **129.16**

Tests	Results								
Appearance	off-white powder								
Appearance of solution	slight opalescent solution (25 mg/ml in acetic acid 80 %)								
Identification (elemental analysis)	<table> <thead> <tr> <th>Theory</th> <th>Found</th> </tr> </thead> <tbody> <tr> <td>C = 55.4 %</td> <td>C = 55.1 %</td> </tr> <tr> <td>H = 8.6 %</td> <td>H = 8.3 %</td> </tr> <tr> <td>N = 10.8 %</td> <td>N = 10.8 %</td> </tr> </tbody> </table> <p>calc. x 0.02 H₂O (0.3 %) x 0.01 HCl (0.3 % Cl⁻)</p>	Theory	Found	C = 55.4 %	C = 55.1 %	H = 8.6 %	H = 8.3 %	N = 10.8 %	N = 10.8 %
Theory	Found								
C = 55.4 %	C = 55.1 %								
H = 8.6 %	H = 8.3 %								
N = 10.8 %	N = 10.8 %								
Identification (TLC)	complies with authentic material								
Specific optical rotation	$[\alpha]_D^{24} = -9.6^\circ$ (0.5 % in water) $[\alpha]_{365}^{24} = -15.3^\circ$ (0.5 % in water)								
Purity (TLC)	> 99%								
Related impurities (TLC)	< 1% H-Gly-OH								
TLC conditions	chloroform/methanol/acetic acid 32% 5/3/1 ethylacetate/pyridine/acetic acid/H ₂ O 6/5/1/3 n-butanol/acetic acid/H ₂ O 4/2/2 plate: silicagel 60 F ₂₅₄ detected by: UV, ninhydrin, TMB								
Enantiomer content (GC)	1.1% D-Enantiomer								
Other amino acids (GC)	< 0.2% other								
Enantiomer labelling	0.6% H-Gly-OH								
Assay (titration)	99.1% (HClO ₄)								
Water content (KF volumetric)	0.2%								
Chloride content (titration)	0.3% (AgNO ₃)								

Latest update: February 11, 2020

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