Analytical Data Sheet

Lot number

1022856

not for drug use

Catalog Number	**F-3470.0005**
Product number	**4026826.0005**
Product	**H- β- Cyclopropyl- Ala- OH**
Molecular formula	$C_6H_{11}NO_2$
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)	Theory Found C = 55.4 % C = 55.1 % H = 8.6 % H = 8.3 % N = 10.8 % N = 10.8 % calc. x 0.02 H_2O (0.3 %) x 0.01 HCl (0.3 % Cl^-)
Identification (TLC)	complies with authentic material
Specific optical rotation	$[\alpha]_D^{24}$ = - 9.6 ° (0.5 % in water) $[\alpha]_{365}^{24}$ = - 15.3 ° (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_2O 6/5/1/3 n-butanol/acetic acid/H_2O 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% ($AgNO_3$)