

Analytical Data Sheet

Lot number **1000030635**
not for drug use

Catalog number **G-1900.0001**
Product number **4001473.0001**
Product **H- Glu- Ala- OH**
Molecular formula $C_8H_{14}N_2O_5$
Relative molecular mass 218.21

Tests	Results
Appearance	white powder
Appearance of solution	clear, colorless solution (50 mg/mL in 80% acetic acid)
Identification (TLC)	Rf value in agreement with authentic material
Specific optical rotation	$[\alpha]_D^{24} = 12.3^\circ$ (2 % in water)
Purity (TLC)	> 99%
Related impurities (TLC)	$\leq 0.2\%$ H-Glu-OH (determined as Z-Glu(OBzl)-OH in protected peptide)
TLC conditions	n-butanol/acetic acid/H ₂ O 4/2/2 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% H-D-Glu-Ala-OH < 0.1% H-Glu-D-Ala-OH
Assay (elemental analysis)	99.0%(Nth 12.84%, Nfd 12.71%)
Water content (KF volumetric)	0.7%
Acetic acid content (IC)	0.6%
Trace metals (ICP-MS)	181mg/kg palladium

Latest update: April 14, 2020

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