

## Analytical Data Sheet

Lot number **1000014974**  
not for drug use

Catalog number **G-4785.1000**  
Product number **4040111.1000**  
Product **H- Glu(D- Glu- OH) - OH**  
Molecular formula  $C_{10}H_{16}N_2O_7$   
Relative molecular mass 276.25

Tests	Results
Appearance	white powder
Appearance of solution	clear, colorless solution (50 mg/ml in water)
Identification (elemental analysis)	Theory Found C = 43.5 % C = 43.7 % H = 5.8 % H = 5.8 % N = 10.1 % N = 10.2 %
Identification (TLC)	complies with authentic material
Specific optical rotation	$[\alpha]_D^{24} = +37.5^\circ$ (1 % in 0.5N HCl)
Purity (TLC)	> 99%
TLC conditions	isopropanol/ammonia conc. 1/1 n-butanol/acetic acid/H <sub>2</sub> O 4/2/2 n-BuOH/acetone/NH <sub>4</sub> OH/H <sub>2</sub> O 37/37/19/7 plate: silicagel 60 F <sub>254</sub> detected by: UV, ninhydrin, chlorine-tolidine

Latest update: April 17, 2019

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