



INDOFINE Chemical Company, Inc.

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Analytical Data Sheet

Lot number

1035333

Catalog Number	04-1554
Product	H- Glu(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)	<table><tr><td>Theory</td><td>Found</td></tr><tr><td>C = 43.5 %</td><td>C = 43.2 %</td></tr><tr><td>H = 5.8 %</td><td>H = 5.8 %</td></tr><tr><td>N = 10.1 %</td><td>N = 10.0 %</td></tr></table>	Theory	Found	C = 43.5 %	C = 43.2 %	H = 5.8 %	H = 5.8 %	N = 10.1 %	N = 10.0 %
Theory	Found								
C = 43.5 %	C = 43.2 %								
H = 5.8 %	H = 5.8 %								
N = 10.1 %	N = 10.0 %								
Identification (TLC)	complies with authentic material								
Melting point	188 °C								
Specific optical rotation	$[\alpha]_D^{24} = +4.7^\circ$ (1 % in 0.5N HCl)								
Purity (TLC)	> 99%								
TLC conditions	isopropanol/ammonia conc. 1/1 n-butanol/acetic acid/H ₂ O 4/2/2 plate: silicagel 60 F ₂₅₄ detected by: UV, ninhydrin, chlorine-tolidine								
Assay (elemental analysis)	98.4% (Nth 10.14 %, Nfd 9.98 %)								
Water content (KF volumetric)	0.6%								