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Certificate of Analysis

Catalogue Number	03320
Lot Number	000127-1065919
Product	L-γ-Carboxyglutamic acid
CAS Number	53861-57-7
Molecular Formula	C ₆ H ₉ NO ₆
Molecular Weight	191.1

Appearance	White powder
Solubility	Clear, colorless solution (50 mg/mL in 1N HCl)
Melting Point	178 °C (decomposes)
Elemental Analysis (Found)	C = 36.7%; H = 4.7%; N = 7.2% Calc. as x 0.38 H ₂ O (3.5%)
Water Content (Karl Fisher)	3.7%
TLC System	n-butanol/ acetic acid/ water (4:2:2) Isopropanol/ammonia conc. (1:1) Plate: silica gel 60 F ₂₅₄ Detected by: UV, ninhydrin, TMB
Optical Rotation	[α] _D ²⁴ = + 40.6 ° (1% in 6N HCl)
Purity by TLC	> 99%
Storage	Store at ≤ -4 °C

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Remarks

See material safety data sheet for additional information

For laboratory use only

The foregoing is a copy of the Certificate of Analysis as provided by our supplier



Bala Kumar
Quality Control Manager