

Certificate of Analysis

Product Description: L-Glutamic Acid, free acid

Catalog Number: 101793

Lot: YC10009

Formula : C₅H₉NO₄

CAS #: 56-86-0

Physical Description: White Powder

Formula Weight: 147.13

Storage: 15 - 30°C

Test	Specification	Result
Identity Test	Passes	Passes
Purity	≥99%	99.41%
FTIR	Conforms to Standard	Conforms to Standard
Moisture	≤0.15%	0.09%
Optical Rotation (c=10, 2N HCl)	+25° to +35°	+31.63°
Solubility (10% in 2N HCl)	Clear, Colorless Solution	Clear, Colorless Solution
Arsenic	≤1.5 ppm	≤1 ppm
Heavy Metals (as Pb)	≤20 ppm	≤10 ppm

Chloride(Cl): <0.02%

Ammonium(NH₄): <0.02%

Sulfate(SO₄): <0.02%

Iron(Fe): <10 ppm

Loss on Drying: 0.06%

Residue on Ignition(sulfated): 0.07%

pH: 3.28

Recommended Retest Date (MM/DD/YYYY): 06/09/2025



10/21/2022 - Lily Liu

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