



The Power to Question

CERTIFICATE OF ANALYSIS

Catalog Number: sc-218621
Lot Number: SAMPLE
Product Name: L-(+)-Lactic acid
CAS Number: 79-33-4
Molecular Formula: $C_3H_6O_3$
Molecular Weight: 90.08

Test	Specification	Result
Appearance	White to off-white crystalline powder	White crystalline powder
Purity (Sodium Hydroxide Titration)	98.0 - 102.0%	99.5%
Melting Point	50 - 54 °C	52 °C
Solution (Color)	Colorless to almost colorless	Colorless
Turbidometric Analysis	≤ 7.5 NTU	0.5 NTU
FTIR	Corresponds to reference spectrum	Complies
Specific Rotation ($\alpha_{20/D}$)	-15.0 to -13.0	-13.6
Magnesium	≤ 150 mg/kg	< 150 mg/kg
Sodium	≤ 150 mg/kg	< 150 mg/kg
Water Content (KF)	≤ 0.5%	0.2%

Satisfaction Guarantee: We appreciate your business and are committed to providing the highest level of quality and service. Any product that does not meet the performance standards indicated in our product literature will be replaced at no charge. Our policy is valid for one year from the date of your purchase.

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