



CERTIFICATE OF ANALYSIS

The Power to Question

Catalog Number: sc-239466
Lot Number: SAMPLE
Product Name: Calcium L-lactate
CAS Number: 41372-22-9
Molecular Formula: $[\text{CH}_3\text{CH}(\text{OH})\text{COO}]_2\text{Ca}$
Molecular Weight: 218.22

Test	Specification	Result
Appearance	White or colorless powder to fine crystals	White fine crystals
Identification (Infrared Spectrum)	Consistent with structure	Complies
Purity (Enzymatic)	$\geq 85.0\%$ (corrected for water content)	93.51%(corrected for water content)
Purity (Titration)	98.0-101.0%(corrected for water content) in EDTA at 0.1 M (KT)	98.7%
Solubility	Clear(<3.5 NTU) colorless (APHA<5) solution in hot H_2O at 0.5g/ 10 mL	Clear(<3.5 NTU) colorless (4 APHA) solution in hot H_2O at 0.5g/ 10 mL
Specific Rotation ($\alpha_{20/D}$)	$-4.2 \pm 0.5^\circ$ (C = 5 in H_2O)	-4.4°
Loss on Drying	22-27%	24.072%
Carbon Content	24.83%	24.91%
Hydrogen Content	6.25%	6.23%

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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