



The Power to Question

CERTIFICATE OF ANALYSIS

Catalog Number: sc-223855
Lot Number: SAMPLE
Product Name: Calcium α -D-heptagluconate dihydrate
CAS Number: 10030-53-2
Molecular Formula: $C_{14}H_{26}CaO_{16} \cdot 2H_2O$
Molecular Weight: 526.46

Test	Specification	Result
Appearance	White/Colorless powder	White powder
Identification (Infrared Spectrum)	Corresponds to structure	Complies
Purity (TLC)	$\geq 98.0\%$ REL	100.0% REL
Concentration		c = 5, in water (dry substance)
pH	6.0 - 8.0	6.2
Solubility		1g in 10 mL H ₂ O, heat
Solution (Color)	Colorless to almost colorless	Colorless
Solution (Turbidity)	Clear	Clear (<3.5 NTU)
Specific Rotation ($\alpha_{20/D}$)	$3.2 \pm 1.5^\circ$	1.9°
Loss on Drying	3.5 - 8.0%	6.2%
Titration	$\geq 98.0\%$ (EDTA 0.1 M)	100.8%

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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