



The Power to Question

CERTIFICATE OF ANALYSIS

Catalog Number: sc-285369
Lot Number: SAMPLE
Product Name: D-Lactose
CAS Number: 64044-51-5
Molecular Formula: $C_{12}H_{22}O_{11}$
Molecular Weight: 342.29

Test	Specification	Result
Appearance	Colorless or white powder	White powder
Identification (Infrared Spectrum)	Consistent with structure	Complies
Purity (HPLC)	$\geq 98.0\%$	99.7%
Solution (Color)	Colorless at 1g in 10 ml water warm	Complies
Solution (Turbidity)	Clear (< 3.5 NTU) at 1g in 10 ml water warm	Complies
Specific Rotation ($\alpha_{20/D}$)	$52.0 \pm 2.0^\circ$ (C = 10 in water 22h)	52.7°
Water Content	3.0 - 7.0%	5.0%

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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