



The Power to Question

CERTIFICATE OF ANALYSIS

Catalog Number: sc-207473
Lot Number: SAMPLE
Product Name: D-(+)-Raffinose pentahydrate
CAS Number: 17629-30-0
Molecular Formula: $C_{18}H_{32}O_{16} \cdot 5H_2O$
Molecular Weight: 594.52

Test	Specification	Result
Appearance	White powder	Complies
Purity (HPLC)	$\geq 99\%$	99%
Residue on ignition (ash)	$\leq 0.1\%$	0.0%
Solubility	Clear colorless at 0.5 M in water	Complies
Specific Rotation ($\alpha_{20/D}$)	104 - 106° (c = 4, water)	104°
Insoluble matter	$\leq 0.1\%$	0.0%
Aluminum	$\leq 0.0005\%$	< 0.0005%
Ammonia	$\leq 0.05\%$	0.01%
Calcium	$\leq 0.0005\%$	< 0.0005%
Chloride	$\leq 0.05\%$	Complies
Copper	$\leq 0.0005\%$	< 0.0005%
Iron	$\leq 0.0005\%$	< 0.0005%
Lead	$\leq 0.001\%$	< 0.001%
Magnesium	$\leq 0.0005\%$	< 0.0005%
Phosphorus	$\leq 0.0005\%$	< 0.0005%
Potassium	$\leq 0.005\%$	< 0.005%
Sodium	$\leq 0.005\%$	< 0.005%
Sulfate	$\leq 0.05\%$	Complies
Zinc	$\leq 0.0005\%$	< 0.0005

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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