



CERTIFICATE OF ANALYSIS

The Power to Question

Catalog Number: sc-221188
Lot Number: SAMPLE
Product Name: α -Lactose monohydrate
CAS Number: 5989-81-1
Molecular Formula: $C_{12}H_{22}O_{11} \cdot H_2O$
Molecular Weight: 360.31

Test	Specification	Result
Appearance	White to off-white powder	White powder
Purity (GC)	$\geq 99\%$	100% (Total-Lactose)
Residue on Ignition	$\leq 0.1\%$	Complies
Solubility	Clear, colorless solution (1M in H ₂ O)	Complies
Impurity	$\leq 4\%$	3% (Beta-Lactose)
Insoluble Matter	$\leq 0.1\%$	0.0%
Aluminum	$\leq 0.0005\%$	< 0.0005%
Ammonia	$\leq 0.05\%$	< 0.00% (by AMME)
Calcium	$\leq 0.005\%$	0.003%
Chloride	$\leq 0.05\%$	0.00% (by IONX)
Copper	$\leq 0.0005\%$	< 0.0005%
Iron	$\leq 0.0005\%$	< 0.0005%
Lead	$\leq 0.001\%$	< 0.001%
Magnesium	$\leq 0.0005\%$	0.0003%
Phosphorus	$\leq 0.01\%$	0.01%
Potassium	$\leq 0.02\%$	0.01% (by AA)
Sodium	$\leq 0.005\%$	0.003%
Sulfate	$\leq 0.05\%$	0.00% (by IONX)
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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