



CERTIFICATE OF ANALYSIS

The Power to Question

Catalog Number: sc-202368
Lot Number: SAMPLE
Product Name: Trehalose, Dihydrate
CAS Number: 6138-23-4
Molecular Formula: $C_{12}H_{22}O_{11} \cdot 2H_2O$
Molecular Weight: 378.33

Test	Specification	Result
Appearance	White to almost white crystalline powder	White crystalline powder
Purity	$\geq 98.0\%$ (Trehalose, dry basis)	99.0%
pH	4.5 - 6.5 (30% solution)	5.6
Residue on Ignition	$\leq 0.05\%$	0.00%
Color of Solution	≤ 0.1	0.005
Heavy Metals (Pb)	≤ 1 ppm	0.01 ppm
Loss on Drying	$\leq 1.5\%$ (60°C, 5h)	0.1%
Turbidity	≤ 0.05	0.00
Arsenic	≤ 1 ppm	0.01 ppm
Lead	≤ 0.1 ppm	0.001 ppm
Water Content	$\leq 11.0\%$	9.4%
Microbial Count	Total Aerobic Microbial Count: ≤ 300 CFU/g	0 CFU/g
Mold/Yeast	Total Combined Yeast and Mould Count: ≤ 1000 CFU/g	0 CFU/g

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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