

Gojira Fine Chemicals, LLC

Quality Products & Services Meeting Customer Needs
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Certificate of Analysis

D-(+)-Trehalose Dihydrate

Catalog Number:TD1001Lot Number:0109801CAS Number:6138-23-4

Synonym(s): α, α -Trehalose, α -D-Glucopyranosyl- α -D-glucopyranoside

Molecular Formula: $C_{12}H_{22}O_{11} \cdot 2H_2O$

Molecular Weight: 378.33

Storage: 15°C - 30°C

Date of Manufacture: July 7, 2017

Retest Date: July 6, 2022

Test	Specification	Result
Appearance	White crystalline powder	Conforms
Purity	≥ 98.0%	99.6%
Identification	To match reference spectra	Conforms
Specific Rotation (c=7, H ₂ O)	+177.5 to +180.5°	180.41°
Turbidity of Solution (30%)	≤ 0.050	0.00
Solubility (50mg/mL, H ₂ O)	Clear & colorless	Conforms
pH (30%)	4.5 – 6.5	5.55
Coloration of Solution (30%)	≤ 0.10	0.00
Moisture (LOD)	≤ 1.5%	0.2%
Moisture (KF)	8.8 – 9.7%	9.5%
Residue on Ignition	≤ 0.05%	< 0.05%
Heavy Metals (Pb)	≤ 5ppm	< 1ppm
Arsenic (as As ₂ O ₃)	≤ 1ppm	0ppm
Viable Count	≤ 300cfu/g	0cfu/g
Coliforms	Negative	Conforms

Date: January 10, 2018

Approved by:

John Grubb, PhD

Gojira Fine Chemicals, LLC

Quality Manager

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