GMP BIOTECH PRODUCT

TREHALOSE DIHYDRATE

BIOTECH, PLANT DERIVED, NF, EP, JP, LBLE, GMP

CAS #: 6138-23-4

Formula: C₁₂H₂₂O₁₁ 2H₂O

F.W.: 378.33 g/mol

TRED-4250

BIO PHARMA GRADE

TRED TEGO		
Analysis	SPECIFICATIONS	
Appearance and Color	White to Almost White Crystalline Powder	
Assay, Anhydrous Basis (NF/EP/JP)	98.0 - 101.0%	
Appearance of Solution (EP)	Clear, colorless	
Chloride Chloride (NF/E Chloride (· —	
Color and Clarity A72 of Solution (NF) A420 - A72		
Dextrin, soluble starch, sulfite (JP)	Passes Test	
Endotoxin (NF/EP)	< 2.4 EU/g	
Heavy Metals (JP)	< 5 ppm	
Identification, IR (NF-A/EP-A/JP-3)	Conforms to Reference Standard	
Identification B (NF-C/EP-C/JP-1)	Passes Test	
Identification C (NF-C/EP-C/JP-2)	Passes Test	
Escherichia c Microbial Salmonella speci Content (NF/EP) TAN TYN	es Absent/10g MC < 100 CFU/g	
Nitrogen Determination (NF/JP)	≤ 0.005%	
Optical Rotation, Specific Rotation @ 20°C (NF/EP/JP)	+197º to +201º	
pH @ 25°C (NF/EP/JP)	4.5 - 6.5	
Impurity Impurity Unspecified Impuriti Related Substances (NF/EP/JP) Total Impurities w RRT <1 Total Impurities w	y B	
RRT >1	0	
Residue on Ignition (NF/JP) Residual Ethanol	≤ 0.1% ≤ 200 ppm	
Residual Isopropyl Alcohol	<u>≤</u> 250 ppm	
Residual Methanol	≤ 50 ppm	
Soluble Starch (NF/EP)	Passes Test	
Sulfated Ash (EP)	≤ 0.1%	
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	Analysis	SPECIFICATIONS
Sulfate	Sulfate (NF/EP) Sulfate (JP)	≤ 0.0200% ≤ 0.024%
Water, KF (f	NF/EP/JP)	9.0 - 11.0%

Intended for Use in Biopharmaceutical & Biotechnological Applications and Products

High purity, GMP, Reagent grade Trehalose Dihydrate is derived from plant, not animal origins. Trehalose Dihydrate is a non-reducing disaccharide. Its primary purpose is to protect the protein drug substance, both in the liquid and frozen state. It provides tonicity, stabilization, cyro-protection and lyo-protection. Trehalose is superior to other sugars due to the rigidity of the alpha 1,1 bond and it is more stable under high temperature and acidic conditions. Due to its non-reducing end, Trehalose does not react with other excipients such as amino acids or aldehydes.

General Product Description

- Appears as a white to off-white crystalline powder
- Manufactured under an ICH-Q7 Quality Managed cGMP System
- Manufactured in a hormone and animal free environment and is not subject to genetic modification
- Has no known major food allergens (as defined by FDA and WHO)
- The final product and its raw materials are not derived from nor come into contact with animal parts, animal products, and/or animal byproducts/derivatives.
- Visit the product page on our website (<u>www.biospectra.us</u>) for additional information, supporting regulatory

Storage and Shipping Conditions Refer to SDS.

Standard Shelf Life Policy

Each Certificate of Analysis will contain a 2-year retest/recertification date supported by a 3-year ICH Q1 Stability Study (if one is completed).

Package Sizes

100g, 500g, 1kg, 5kg, 10kg, 25kg, 50kg

Standard Lead Time

1-2 weeks

Country of Origin: USA

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