

Qingdao Dailyfood Biotech Co., Ltd

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Technical Data Sheet of Dextrose Monohydrate

BRIEF INTRODUCTION:

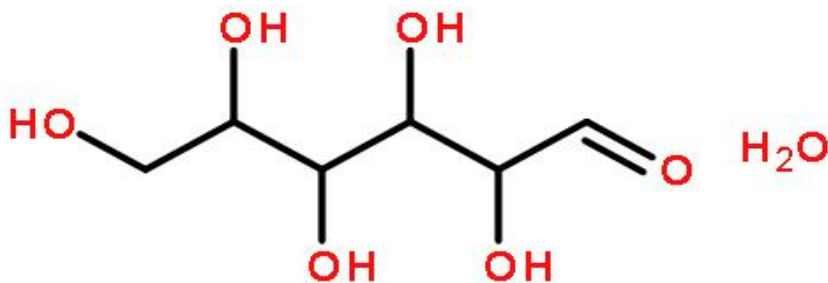
Commodity Name: Dextrose Monohydrate

Synonyms: D-Glucose, D-(+)-Dextrose, Dextrose

Molecular Formula: $C_6H_{12}O_6 \cdot H_2O$

Molecular Weight: 198.17

Molecular Structure:



CAS No.: 50-99-7

MDL No.: MFCD00063774

EINECS No.: 200-075-1

RTECS No.: LZ6600000

BRN No.: 1281608

PubChem No.: 24895314

DESCRIPTION:

Dextrose monohydrate is produced from corn starch. Dual enzymatic conversion technology has been successfully applied to our production in the starch into glucose. By concentration, crystallization, dried, filtered and evaporated to a series of processes, the raw materials converted to a white crystalline hexagonal flakes, i.e. oral glucose. Oral glucose has been widely applied to food and beverage products, as a substitute sweetener. After endotoxin dispose, can get injection grade dextrose monohydrate. Dextrose monohydrate is a white, crystalline powder, with a sweet taste, freely soluble in water, sparingly soluble in alcohol. The natural

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dextrose exists widely in plant and honey.

Allergenics: The product contains none of the ingredients of the list of allergenics of the EC.

APPLICATION:

It is widely used as nutrition, sweetener and process additive for food processing use and intravenous injection.

TECHNICAL SPECIFICATIONS:

Items	Edible Grade Dextrose Monohydrate (GB/T20880-2007)	Injection Grade Dextrose Monohydrate (BP2015)
Appearance	White granular powder	White granular powder
Odor and taste	Smellless & sweet	Smellless & sweet
Dextrose content	≥99.5%	
Specific optical rotation	+52.0°-+53.5°	+52.6°-+53.2°
PH value	4.0-6.5	
Acidity	≤1.2ml	≤0.2ml
Clarity of solution		≤1# of turbidity standard
Clarity of ethanol solution		Clear
Chloride	≤0.02%	≤0.01%
Sulfate	≤0.02%	≤0.01%
Insoluble matter in ethanol	≤5mg	
Sulfite and soluble starch	Meet the specification	Meet the specification
Loss on dry	≤9.5%	≤7.5-9.5%
Ash	≤0.6%	
Solubility	≥99%	
Residue on ignition	≤0.2%	≤0.1%
Protein		Meet the specification
Ferric salt	≤0.002%	≤0.001%

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Heavy metals	≤20ppm	≤5ppm
Lead	≤0.5ppm	
Arsenic salt	≤0.0002%	≤0.0001%
Microbial limits	Meet the specification	Meet the specification
Total plate count	≤1500cfu/g	
Coliform Bacilli	≤30MPN/100g	
Pathogenic Bacteria	Negative	
Bacterial endotoxin		≤0.25Eu/ml

PACKAGE:

Net weight: 25kgs, gross weight: 25.3kgs, pp-woven bags.

20.0MT per 20' container without pallet and 16.0MT per 20' container with pallets.

STORAGE AND TRANSPORTATION:

The product should be stored on the pallet, in a light-proof, well-closed, cool, dry and ventilated place. Following the above guidelines should insure 24-month shelf life. After opening the original packing, the complete content should be used immediately. Material can be microbiologically contaminated from unhygienic environment. It is a non-dangerous product and can be transported as a common chemical product. Protect them from sunshine or rain. Must not be loaded and transported with toxic, hazard or polluting substances. Handle with care in order to avoid damaging the package.

QUALITY AND SAFETY ASSURANCE:

Controlled under certified quality system ISO and product safety is ensured by established safety system.

TEST METHOD: Full details and test method are available on request.