



DFI-932258V02

SPECIFICATION

Dextrose Monohydrate Crystalline Powder (F)

USP, BP, FCC

DESCRIPTION

Country of origin	India
Shelf life	24 months
Storage	Store in tight containers in a dry place
Function	Nutritive sweetener; Humectants texturizing agent
CAS No.	14431-43-7
Formula (Molecular)	$C_6H_{12}O_6 \cdot H_2O$
Molecular weight	198.17 g/mol
Description	Dextrose occurs as white, crystalline granules or as a granular powder. It is purified and crystallized D-glucose. It contains one molecule of water of crystallisation. Contains one molecule of water of crystallisation. It is freely soluble in water, very soluble in boiling water, and slightly soluble in alcohol
Additional Information (Foreign sugar, soluble and dextrin)	Complies with IP/BP/USP

SPECIFICATIONS

Solubility	Freely soluble in water, sparingly soluble in ethanol (96%)
Identification (Test)	A copious red precipitate of cuprous oxide forms
Assay (on dried basis)	99.5 - 100.5 %
Arsenic	Max 1 mg/kg, ppm
Chloride (Cl)	Max 0.018 %
Lead	Max 0.1 mg/kg, ppm
Sulphur Dioxide (SO ₂)	Max 0.001 %
Loss on drying	Max 10 %
Specific Optical Rotation (on dried basis)	+52.6° and +53.2°
Sulphated ash	Max 0.1 %
Starch	A yellow colour indicates the absence of soluble starch
Clarity (10 gm in 15 ml water)	Clear
Conductivity	Max 20 μ Sm/ Cm
Sulphate	Max 200 ppm, mg/kg
Barium	Complies with IP
Bulk Density (Loose)	550 - 650 gm/liter
Bulk Density (Packed)	600 - 850 gm/liter
Volume (Specific, Loose)	150 - 175 ml/100 gm
Volume (Specific, Packed)	120 - 150 ml/100 gm
Filtration Test (20% DS Sol)	Max 8 Min/lit
pH (10%)	Min 5
Calcium (Ca)	Max 200 ppm, mg/kg
Retention (30 #) (500 micron)	Max 10 %

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DFI-932258V02

SPECIFICATIONS - Continued

Retention (60 #) (250 micron)	Min 20 %
Retention (100 #) (150 micron)	Min 40 %

MICROBIOLOGICAL

Total plate count	Max 500 cfu/gm
Yeasts & Moulds	Max 10 cfu/gm
Enterobacteriaceae	<10 cfu/gm
Escherichia Coli	Absent/ gm
Salmonella	Absent/ 25 gm
Staphylococcus aureus	Absent/gm
Pseudomonas aeruginosa	Absent/gm

STATEMENT

NON IRRADIATION / NON IONIZED/RADIOLOGICAL

According to the supplier, this product is non-irradiated, non-ionized and doesn't contain any radiological contamination.

GMO STATEMENT

According to the supplier, this product does not contain any genetically modified ingredients or processing aids.

BSE/TSE Statement

According to the supplier, this product does not contain BSE or TSE.

ALLERGEN

Present

Cereals containing Gluten (i.e wheat, rye, barley, oats, kamut or their hybridised strains) and products thereof	NO
Crustaceans and products thereof	NO
Eggs and products thereof	NO
Fish and products thereof	NO
Peanuts and products thereof	NO
Soybeans and products thereof	NO
Milk and products thereof (including lactose)	NO
Nuts i.e. Almond (<i>Amygdalus communis</i> L.), Hazelnut (<i>Corylus avellana</i>), Walnut (<i>Juglans regia</i>), Cashew (<i>Anacardium occidentale</i>), Pecan nut (<i>Carya illinoiesis</i> (Wangenh) K. Koch), Brazil nut (<i>Bertholletia excelsa</i>), Pistachio nut (<i>Pistacia vera</i>), Macadamia nut and Queensland nut (<i>Macadamia ternifolia</i>) and products thereof	NO
Celery and products thereof	NO
Mustard and products thereof	NO
Sesame seeds and products thereof	NO
Sulphur dioxide and sulphites at concentrations of more than 10mg/kg or 10mg/litre expressed and SO2	NO
Lupin and products thereof	NO
Molluscs and products thereof	NO



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DIETARY	Suitable
Vegetarian	YES
Vegans	YES
Orthodox Jewish Diet (Kosher Certified)	YES
Muslim Diet (Halal Certified)	YES

Exclusion of Liability

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