



## TECHNICAL DATA SHEET

**Product Name:** Dextrose Monohydrate

**Synonyms:** D-Glucose Monohydrate, Glucose Monohydrate, Corn Sugar Monohydrate, Grape Sugar Monohydrate,  $\alpha$ -D-Glucopyranose Monohydrate

**Appearance:** White Crystalline Powder

**Molecular formula:**  $C_6H_{12}O_6 \cdot H_2O$

**CAS number:** 5996-10-1

**HS CODE:** 17023000

### TYPICAL SPECIFICATIONS

Description		White Crystalline Powder
Smell		No peculiar smell
Specific Optical Rotation		+52.0-53.5°
Glucose content(on dry base)	≥%	99.0
Appearance of solution	≤	Clear, odourless
Clarity Ethanol of Solution		Conforms
Moisture	≤%	10.0
PH		4.0-6.5
Coliforms	≤	3
Total Bacterias (cfu/g)	≤	3000
Pb(mg/kg)	≤	0.5
As(mg/kg)		0.5
Staphylococcus aureus		Negative
Coliforms	≤	25ppm
Salmonella	≤	Negative
Shigella		Negative

## APPLICATIONS

### Food and Beverages:

Used as a sweetener and energy source in drinks, baked goods, candies, and dairy products.

### Pharmaceuticals:

Used as a filler and excipient in tablets and other dosage forms.

### Other Uses:

Applicable in fermentation processes and as a nutrient source in various industries.

## PACKAGING

25 kg PP woven bags with PE liner

25 kg kraft paper bags

25kg cardboard drum

1000 kg jumbo bags

Custom packaging available upon request

## STORAGE & HANDLING

**Storage:** Keep in a cool, dry, and well-ventilated area, away from moisture and direct sunlight.

**Handling precautions:** Avoid inhaling dust. Use appropriate PPE when handling. In case of contact with eyes, rinse immediately.

**Shelf life:** 2 years under proper storage conditions.

## SAFETY & TRANSPORT

**Classification:** Non-hazardous

**Toxicity:** Generally recognized as safe (GRAS) by FDA when used as directed.

**Transport:** Not classified as dangerous goods

