

## 1. Identification of Substance

<b>Product</b>	:	Dextrose Monohydrate Powder
<b>Packing</b>	:	50 kgs. HDPE bag packed with Liner.
<b>Shelf Life</b>	:	2 years from the date of manufacture.
<b>Storage &amp; Preservation</b>	:	To be stored above the ground in a clean and hygienic place, away from humidity and direct sunlight. Maintain ambient temperature.
<b>Intended Use</b>	:	It is used in energy/sports drinks, confectionery, pharmaceutical & nutraceutical applications and is also used a fermentation substrate in certain applications.
<b>Sampling Plan</b>	:	As per guideline HL/QC/FG-SMP/01

## 2. Physical & Chemical Parameters

Parameter	Specifications	Method of analysis
Description	A White Crystalline Powder.	Visual Inspection
Solubility	Freely Soluble in Water. Sparingly Soluble in (95%) ethanol	Physical Test
Identification (Test A and B)	Complies with IP	IP Addendum 2024
Appearance and odor of solution	Complies with IP	IP Addendum 2024
Acidity (mL of 0.1 N NOH / 6 gms.)	≤ 0.15 mL.	IS 474 : 1992
Specific Optical Rotation 10% w/v at 25 °C	+52.5 ° to +53.3 °	IP Addendum 2024
Dextrose Equivalent (% w/w on DB)	99.5 % - 101.5 %	Lane and Eynon method
Arsenic	≤ 1 ppm	IP Addendum 2024
Heavy Metals	≤ 5 ppm	IP Addendum 2024
Chlorides	≤ 125 ppm	IP Addendum 2024



**Document:** Technical Data Sheet

**Product:** Dextrose Monohydrate Powder

**H.L. Agro Products Pvt. Ltd.**



Sulphates	$\leq 200$ ppm	IP Addendum 2024
Sulphite	15.00 ppm	IP Addendum 2024
Barium	Complies with IP	IP Addendum 2024
Foreign Sugars, Soluble Starch and Dextrin	Complies with IP	IP Addendum 2024
Sulphated Ash%	$\leq 0.1$ %	IP Addendum 2024
Water Content	$\leq 10.0\%$	IP Addendum 2024
pH of 10% w/v solution	$\geq 5.0$	AOAC 943.02
Retention #30 Mesh	$\leq 10\%$	ASTA 10.0

### 3. Microbiological Parameters:

Parameter	Specification
Total Viable Count	$\leq 500$ CFU/gm.
Total Fungal Count	$\leq 100$ CFU/gm.
E. Coli	Absent /gm.
Salmonella	Absent/25gms.