

**SCP**

Final Product Report

SCP/SOP/QA/05-F07-00

SUKHJIT CORN PRODUCTS
 [Unit: The Sukhjit Starch & Chemicals Ltd.]
QUALITY ASSURANCE DEPARTMENT
CERTIFICATE OF ANALYSIS

PRODUCT: DEXTROSE (GLUCOSE) ANHYDROUS-IP

Batch No.: 954
 Batch Size: 10.0 MT
 Mfg. Lic.No.: 1956-OSP
 Net Weight: 25.0 Kg./ Bag

Analytical Report No.: MS254390
 Date of Mfg.: 20/01/2025
 Date of Analysis: 21/01/2025
 Date of Expiry: 19/01/2030

Sr.No.	TESTS	OBSERVATIONS	SPECIFICATION/ LIMITS
1	Description	Complies	White or Colorless Crystalline Powder
2	Solubility	Complies	Very soluble in boiling water; freely soluble in water; soluble in boiling ethanol, slightly soluble in ethanol.
3	Identification: (A) Infrared Absorption Spectrophotometry Test	Complies	The absorption spectrum obtained with the sample should be concordant with the absorption spectrum obtained with Dextrose anhydrous working standard.
	(B) Assay (By HPLC)	99.89	B) The principal peak in the chromatogram obtained with the test solution is similar in retention time and size to the principal peak in the chromatogram obtained with reference solution (a).
	(C) Water	0.461	Maximum 1.0%
4	Appearance of Solution	Complies	Test solution is clear, not more intensely coloured than reference solution BYS7 and is odourless
5	Specific Optical Rotation	+53.05°	+52.50° to +53.30°
6	Related Substances	0.11	Impurity A and B: Not more than 0.4%
		Not Detected	Impurity C: Not more than 0.2%
		Not Detected	Impurity D: Not more than 0.15%
		Not Detected	Unspecified Impurity: Not more than 0.1%
		0.11	Total Impurity: Not more than 0.5%
7	Soluble Starch and Sulphite	Complies	Not More Than 15 ppm
8	Dextrin	Complies	The substances dissolves completely.
9	Arsenic	Complies	Not More Than 1 ppm (Limit Test)
10	Heavy Metals	Complies	Not More Than 5 ppm
11	Conductivity	2.70	Maximum 20µS.cm ⁻¹
12	Water	0.461	Not More Than 1.00%
13	Assay	100.55	97.5% to 102% (Anhydrous Substance)
14	Bacterial Endotoxins	Complies	Not More Than 0.5 EU/ml of 5% w/v solution in wfi

Conclusion: The material complies/ ~~not complies~~ with required Specification as laid down in Indian Pharmacopoeia (Addendum to IP-2024).

Ramesh Kumar
 ANALYZED BY 23/01/2025

23/01/25
 APPROVED BY

Ravanshi
 MANAGER-QA