



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 (B) Assay (By HPLC) (C) Water	Complies 99.89 0.461	The absorption spectrum obtained with the sample should be concordant with the absorption spectrum obtained with Dextrose anhydrous working standard. 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). 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 Not Detected Not Detected Not Detected 0.11	Impurity A and B: Not more than 0.4% Impurity C: Not more than 0.2% Impurity D: Not more than 0.15% Unspecified Impurity: Not more than 0.1% 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 $20\mu\text{S.cm}^{-1}$
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).

Ramendra Sarker
ANALYZED BY *23/01/2025*

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APPROVED BY

Rajaraman
MANAGER-QA