

DEXTRAN SULFATE SODIUM SALT, MW 8,000

BIOTECH, LBLE, GMP

BIO PHARMA GRADE / DXSE-4252

$(C_6H_7Na_3O_{14}S_3)_n$ Δ F.W. 8000 g/mol Δ CAS# 9011-18-1

Intended for Use in Biopharmaceutical, Biotechnological Applications and Products

Dextran Sulfate Sodium Salt, MW 8,000 is a polyanionic derivative of dextran, produced by the esterification of the glucose polymer (glucan polysaccharide) with chlorosulphonic acid. Dextran fractions are characterized by their average MW and MW distribution with predominantly 1-6 glycosidic bonds and 5% or less of 1-3 branching. Each base dextran polymer has characteristics unique to the specific strain of bacteria from which it was derived. In addition to variables in molecular weight and branching, the level of sulfonation adds to the unique character and performance of the finished product in terms of its intended end use. Dextran Sulfate Sodium Salt, MW 8,000 is used in the solubilization and purification process of protein molecules intended for use in a final drug product. Dextran is neutral in pH and soluble in water. It is easily filtered and biodegradable.

SPECIFICATIONS

| ANALYSIS | | SPECIFICATIONS |
|--|----------------------|---------------------------|
| Appearance (Color) | | Off White to Light Yellow |
| Appearance (Form) | | Powder |
| Chloride Content | | ≤ 1000 ppm |
| Clarity (20% solution) Absorbance at 360nm | | ≤ 0.9 OD unit |
| Enzymes | DNase - Endo/Nickase | Passes Test |
| | DNase - Exonuclease | Passes Test |
| | Protease | Passes Test |
| Free Inorganic Sulfate | | ≤ 0.2 % |
| Glucose | | 35 - 48% |
| Identity (Colorimetric) | | Passes Test |
| Insoluble Iron | | ≤ 2.0 % |
| Loss on Drying | | ≤ 10.0 % |
| Microbial Content | | ≤ 10 CFU/g |
| pH (1% solution) | | 5.0 - 7.5 |
| Residue on Ignition | | 35 - 50% |
| Residue Pyridine | | ≤ 2.0 % |
| Specific Rotation 20°C | | +75° - +105° |
| Total Sulfur Content | | 17.0 - 20.0% |
| Viscosity (In 1.0M NaCl at 25°C) | | 0.018 - 0.032 |

General Product Description:

Molecular Formula: $(C_6H_7Na_3O_{14}S_3)_n$

Molecular Weight: 8000 g/mol

CAS Number: 9011-18-1

Dextran Sulfate Sodium Salt, MW 8,000 Biotech

- Appears as an off-white to light yellow powder
- Is manufactured under an ICH-Q7 Quality Managed cGMP System
- Manufactured in an enzyme free, hormone free and animal free environment
- Has no known major food allergens (as defined by FDA and WHO)
- The final product nor its raw materials are not derived from nor come into contact with animals, animal parts, animal products, and/or animal byproducts or derivatives.
- Is not subject to genetic modification
- Synonyms: Dextran Hydrogen Sulfate, Sodium Salt

Shelf Life Policy:

Three-year expiry from the date of manufacture.

Storage and Shipping Conditions:

Please refer to the SDS for storage and shipping conditions.

Package Size:

100g, 500g, 1kg, 5kg, 10kg, 25kg, 50kg