

Dextran 7000

Cat# C3015-s – 100 g / C3015 - 500g

Storage at Room Temp.

INTRODUCTION

Dextran is a complex, branched glucan (polysaccharide made of many glucose molecules) composed of chains of varying lengths (from 3 to 2000 kDa). It is used medicinally as an antithrombotic (anti-platelet), to reduce blood viscosity, and as a volume expander in anemia.

The straight chain consists of α -1,6 glycosidic linkages between glucose molecules, while branches begin from α -1,3 linkages. (For information on the numbering of carbon atoms in glucose, see the glucose article.) **Dextran** is synthesized from sucrose by certain lactic-acid bacteria, the best-known being *Leuconostoc mesenteroides* and *Streptococcus mutans*. Dental plaque is rich in dextrans. Dextran is also formed by the lactic acid bacterium *Lactobacillus brevis* to create the crystals of tibicos, a water kefir fermented beverage which supposedly has some health benefits

INFORMATION

Average Molecular Weight (Gel permeation chromatography):

64,000 Dalton

Below 20,100 Dalton: 10%

Above 160,400 Dalton: 10%

pH: 6.4

Chloride (Cl): <100mg/kg

Nitrogen (N): <64mg/kg

PRODUCT USE LIMITATION

These products are intended for research use only.