



Dextrans & Derivatives

Dextrans are found as bacterial extracellular polysaccharides. They are synthesized from sucrose by beneficial lactic acid bacteria, such as *Leuconostoc mesenteroides*. Bacteria employ dextran in biofilm formation¹⁰ or as protective coatings, e.g., to evade host phagocytes in the case of pathogenic bacteria. The physical and chemical properties of purified dextrans vary depending on the microbial strains from which they are produced and by the production method, but all are white and tasteless solids. Dextrans have high water solubility and the solutions behave as Newtonian fluids. Solution viscosity depends on concentration, temperature, and molecular weight, which have a characteristic distribution. Cross-linked dextran beads are widely used for chromatography in biochemical research and industry. The classic application of cross-linked dextrans is as gel filtration media in packed-bed columns for the separation and purification of biomolecules with molecular weights in the range of 0.7-200 kDa. Dextran sulfates are derived from dextran via sulfation. They have become indispensable components in many molecular biology techniques, including the transfer of large DNA fragments from agarose gels and rapid hybridization.

Prdt. Code	Product Name	CAS No.	Pkg. Unit
47601	Dextran ex. <i>Leuconostoc</i> Sp. – Tech 10 (9-11) (Avg. Molecular Wt. 10,000KDa)	9004-54-0	5gm, 25gm, 100gm
41570	Dextran ex. <i>Leuconostoc</i> Sp. – Tech 40 (35-45) (Avg. Molecular Wt. 40,000KDa)	9004-54-0	5gm, 25gm
35270	Dextran ex. <i>Leuconostoc</i> Sp. – Tech 110 (100-120) (Avg. Molecular Wt. 110,000KDa)	9004-54-0	5gm, 25gm, 100gm
62753	Dextran ex. <i>Leuconostoc</i> Sp. – Tech 250 (225-275) (Avg. Molecular Wt. 250,000KDa)	9004-54-0	5gm
19301	Dextran ex. <i>Leuconostoc</i> Sp. – Tech 500 (450-550) (Avg. Molecular Wt. 500,000KDa)	9004-54-0	10gm, 25gm, 100gm, 500gm
83826	DEAE-Dextran ex. <i>Leuconostoc</i> Sp. – 500 (Avg. Molecular Wt. 500,000KDa)	9015-73-0	1gm, 5gm
33434	DEAE-Dextran Hydrochloride ex. <i>Leuconostoc</i> Sp. – 500 (Avg. Molecular Wt. 500,000, Free DEAE-Cl – max 20ppm)	9064-91-9	5gm, 25gm, 100gm
99629	Dextran Sulphate Sodium Salt (DSS) ex. <i>Leuconostoc</i> Sp. for molecular biology (Avg. Molecular Wt. 500,000KDa)	9011-18-1	10gm, 25gm, 100gm, 250gm

Blue Dextrans: Blue dextran is used in affinity chromatography, gel filtration chromatography, protein chromatography and molecular weight markers. Blue dextran has been used to study Alzheimer's disease.

Prdt. Code	Product Name	CAS No.	Pkg. Unit
28354	Dextran Blue 5 ex. <i>Leuconostoc</i> Sp. (Avg. Molecular Wt. 5,000KDa)	87915-38-6	500gm
82575	Dextran Blue 40 ex. <i>Leuconostoc</i> Sp. (Avg. Molecular Wt. 40,000KDa)	87915-38-6	1gm
57356	Dextran Blue 110 ex. <i>Leuconostoc</i> Sp. (Avg. Molecular Wt. 110,000KDa)	87915-38-6	1gm
14420	Dextran Blue 500 ex. <i>Leuconostoc</i> Sp. (Avg. Molecular Wt. 500,000KDa)	87915-38-6	1gm
67045	Dextran Blue 2000 ex. <i>Leuconostoc</i> Sp. (Avg. Molecular Wt. 2,000,000KDa)	87915-38-6	1gm

Phenyl Dextran: (Phenyl dextrans may be used in the preparation of hydrophobic gels and also hydrophobic coatings.)

Prdt. Code	Product Name	CAS No.	Pkg. Unit
65163	Dextran Phenyl 40 (30-50) (Avg. Molecular Wt. 40,000KDa)		1gm, 5gm

Please contact: