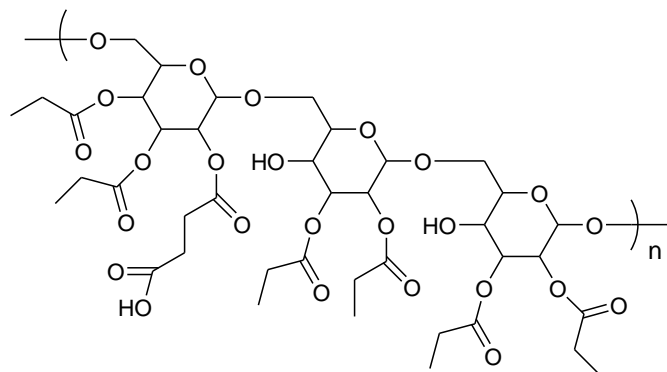


Sample Name:

Dextran propionate succinate

Sample #: **P16291-Dextran-PS**

Structure:



Composition:

Mw of Dextran	10,000
PDI	3.8
Degree of substitution (propionate)	76%
Degree of substitution (succinate)	15%

Synthesis procedure:

The dextran propionate succinate was prepared from dextran with molecular weight of 10,000 and propionic anhydride and succinic anhydride in the presence of sodium propionate in formamide at 50°C.

Purification:

The obtained dextran propionate succinate was repeatedly precipitated from its methanol solution into water.

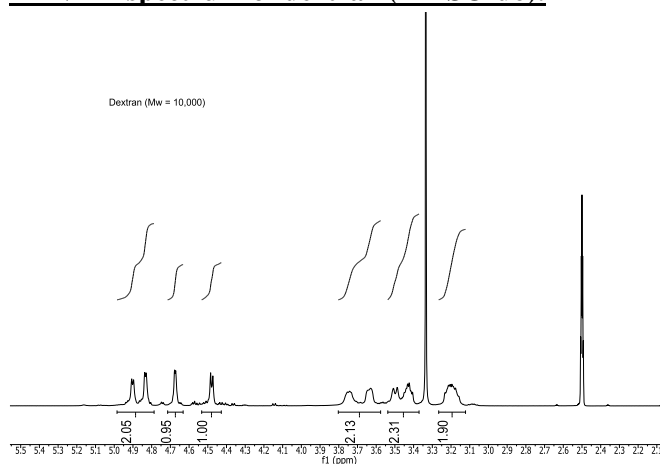
Characterization:

The product was analyzed by proton NMR and FT-IR spectroscopy. The degree of substitution was calculated from NMR.

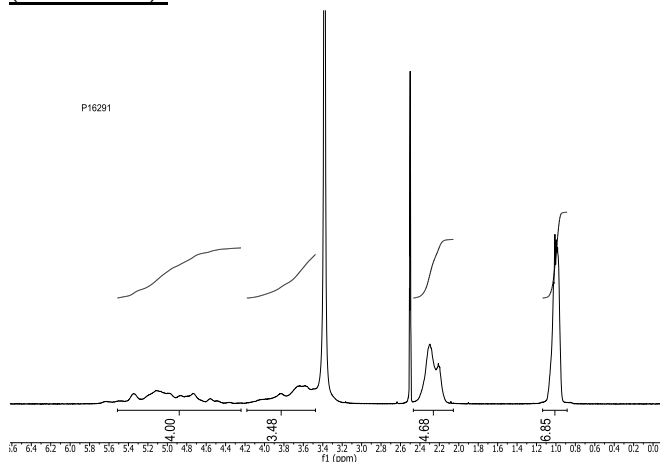
Solubility:

	Water	DMSO	Methanol
Dextran	Yes	Yes	No
Dextran-Propionate	No	Yes	Yes
Dextran-propionate-Succinate	No	Yes	yes

¹H NMR spectrum of dextran (DMSO-d6):



¹H NMR spectrum of dextran propionate succinate (DMSO-d6):



FT-IR of dextran and product:

