Supplementary information

Viscosity of aqueous polysaccharide solutions and selected homogeneous binary mixtures

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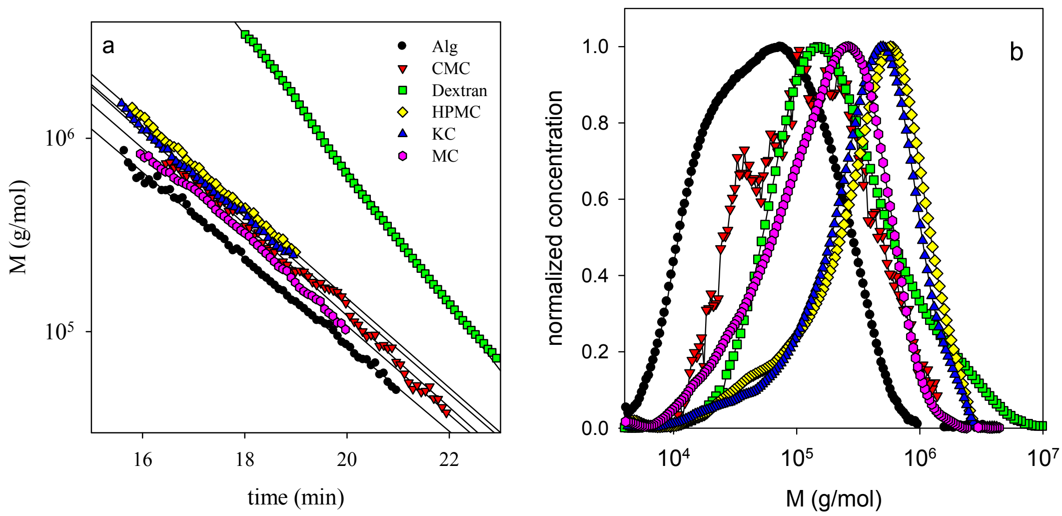

Fig. S1 Molar mass distribution of different polysaccharides determined by SEC (b) using the molar mass as a function of the elution time (a).

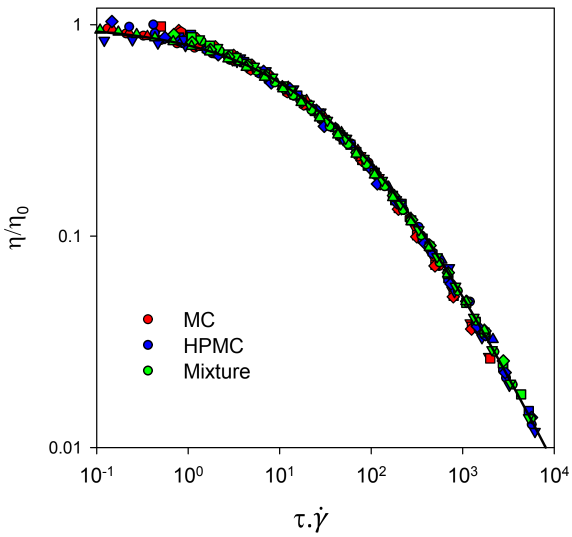

Fig. S2 Master curves of the shear thinning behaviour of pure MC, pure HPMC and mixtures. The solid line represents a fit to eq. 9.

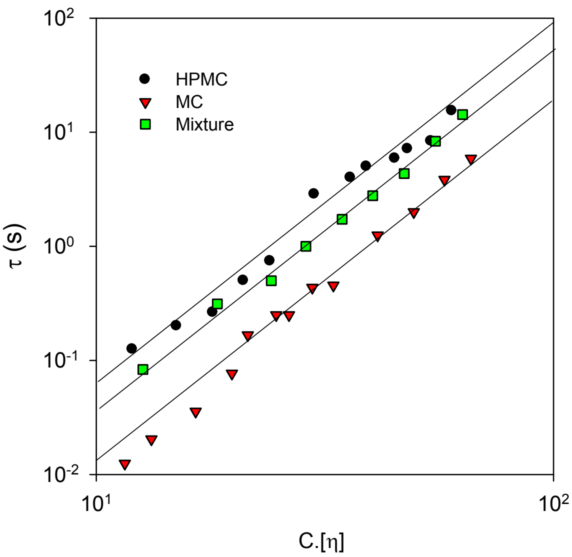

Fig. S3 Dependence of τ on C.[η] for pure MC, pure HPMC and mixtures. The solid lines have a slope of 3.

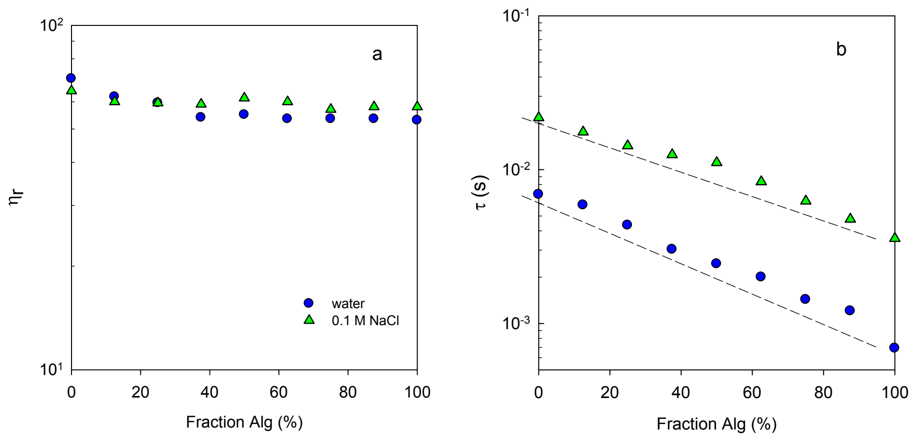

Fig. S4 Dependence of η_r (a) and τ (b) on the weight fraction of the Alg solution for mixtures of 10 g/L CMC and 20 g/L Alg with and without 0.1 M NaCl.

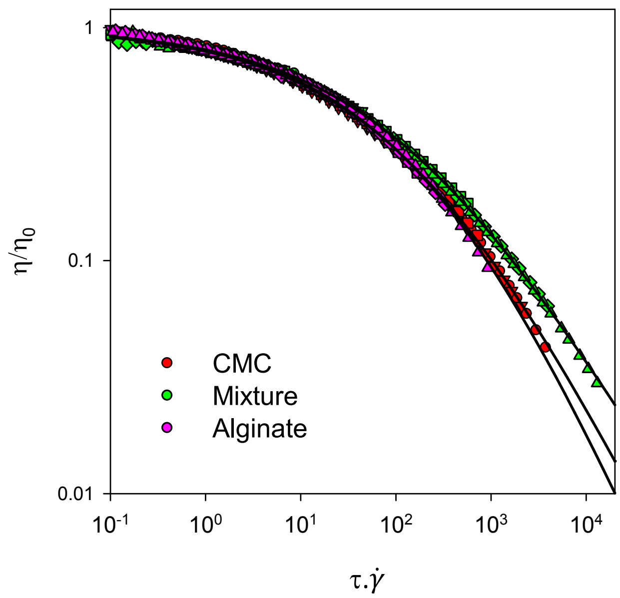

Fig. S5 Master curves of the shear thinning behaviour of pure CMC, pure Alg and mixtures. The solid lines represent fits to eq. 9.

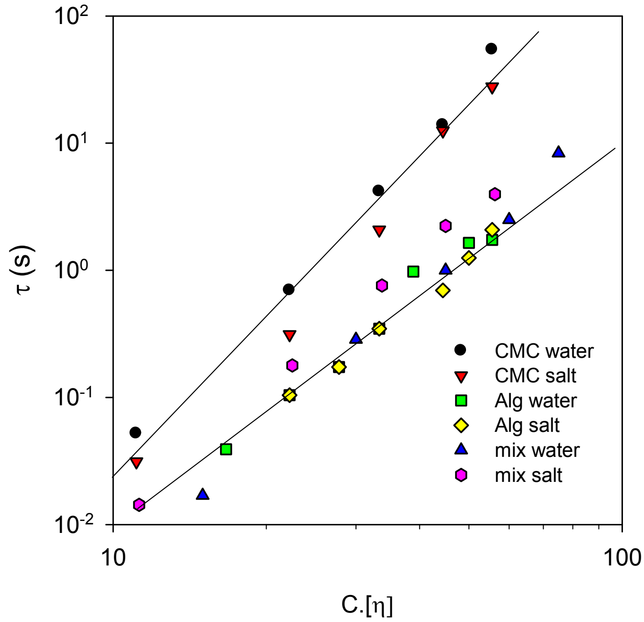

Fig. S6 Dependence of τ on C.[η] for pure CMC, pure Alg and mixtures with and without 0.1M NaCl.

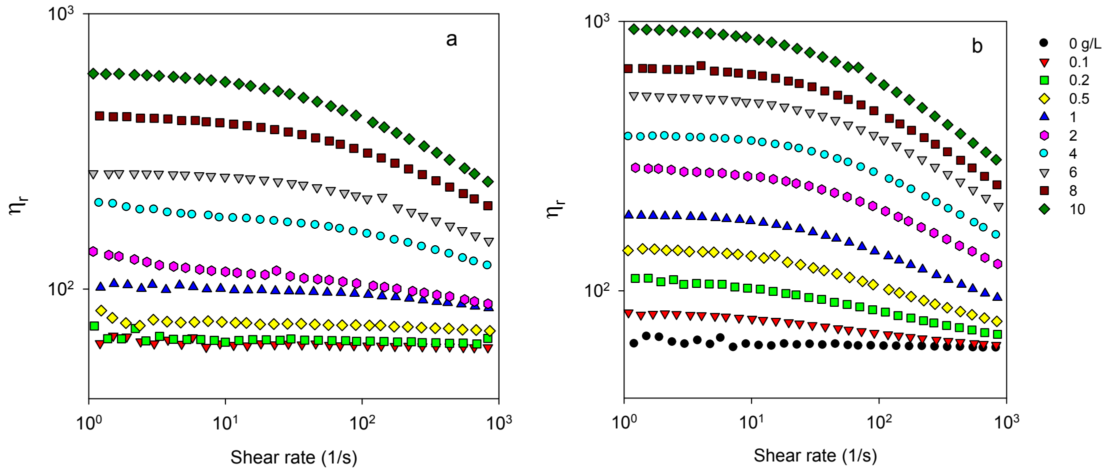

Fig. S7 Shear rate dependence of η_r for mixtures of 180 g/L Dex and different concentrations of KC, indicated in the figure, in 0.1 M NaCl (a) or in pure water (b).

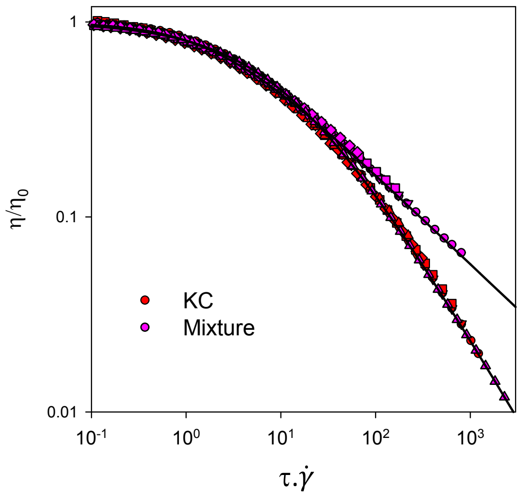

Fig. S8 Master curves of the shear thinning behaviour of pure KC and mixtures with Dex in salt-free water. The solid lines represent fits to eq. 9.

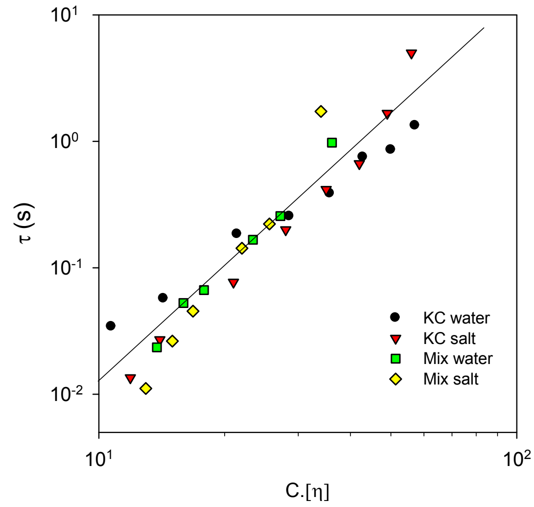

Fig. S9 Dependence of τ on C.[η] for pure KC and mixtures with Dex with and without 0.1M NaCl.