

Protective action of lemongrass essential oil on mucilage from chia (*Salvia hispanica*) seeds

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Supporting information

Table S1. Values of the consistency index (k), rheological behavior index, (n) and correlation coefficient (R^2), of mucilage suspensions obtained from data fitting to eq.2.

Polymer Concentration (%)	K (Pa·s ⁻¹)	n	R^2
0.025	$2.6 \times 10^{-3} \pm 2.8 \times 10^{-4}$	$9.9 \times 10^{-1} \pm 1.9 \times 10^{-2}$	0.99597
0.05	$9.6 \times 10^{-3} \pm 7.2 \times 10^{-4}$	$9.5 \times 10^{-1} \pm 1.3 \times 10^{-2}$	0.99762
0.1	$2.0 \times 10^{-2} \pm 7.5 \times 10^{-4}$	$7.2 \times 10^{-1} \pm 2.2 \times 10^{-2}$	0.9919
0.2	$8.9 \times 10^{-2} \pm 8.2 \times 10^{-3}$	$7.3 \times 10^{-1} \pm 1.6 \times 10^{-2}$	0.99548
0.3	$1.5 \times 10^{-1} \pm 1.8 \times 10^{-2}$	$6.8 \times 10^{-1} \pm 2.1 \times 10^{-2}$	0.99192
0.4	$1.0 \times 10^{-1} \pm 1.0 \times 10^{-2}$	$7.6 \times 10^{-1} \pm 1.8 \times 10^{-2}$	0.99493
0.5	$1.5 \times 10^{-1} \pm 2.1 \times 10^{-2}$	$6.8 \times 10^{-1} \pm 2.4 \times 10^{-2}$	0.98961
0.6	$4.0 \times 10^{-1} \pm 3.1 \times 10^{-2}$	$6.1 \times 10^{-1} \pm 1.4 \times 10^{-2}$	0.9966
0.7	$4.5 \times 10^{-1} \pm 3.3 \times 10^{-2}$	$6.6 \times 10^{-1} \pm 1.3 \times 10^{-2}$	0.99692
0.8	$4.9 \times 10^{-1} \pm 4.8 \times 10^{-2}$	$6.4 \times 10^{-1} \pm 1.7 \times 10^{-2}$	0.99444
0.9	$6.7 \times 10^{-1} \pm 5.6 \times 10^{-2}$	$5.6 \times 10^{-1} \pm 1.4 \times 10^{-2}$	0.99532
1	1.8 ± 0.10	$5.1 \times 10^{-1} \pm 6.8 \times 10^{-3}$	0.99768
1.1	1.4 ± 0.15	$6.3 \times 10^{-1} \pm 1.9 \times 10^{-2}$	0.99216
1.2	2.1 ± 0.26	$5.6 \times 10^{-1} \pm 2.3 \times 10^{-3}$	0.98974
1.3	5.6 ± 0.49	$4.8 \times 10^{-1} \pm 2.6 \times 10^{-2}$	0.99352
1.4	6.1 ± 0.62	$4.7 \times 10^{-1} \pm 1.6 \times 10^{-2}$	0.99102

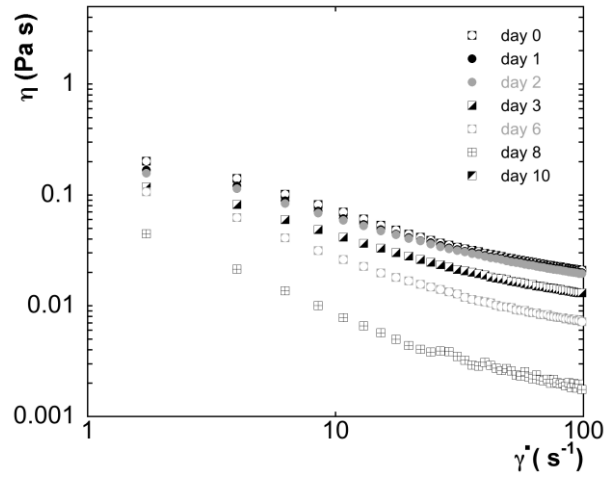


Fig. S1. Apparent viscosity curves of CM based oil in water emulsions containing sunflowers oil 0.1% collected within 10 days.

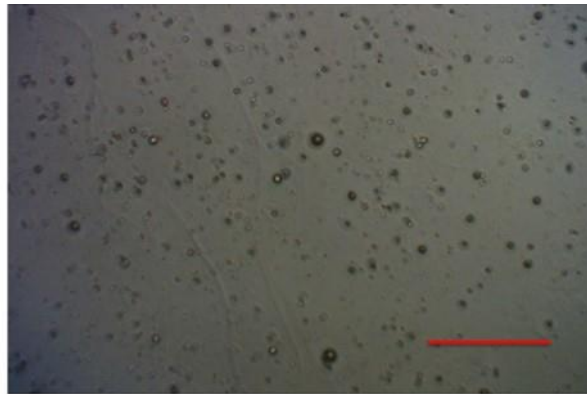


Fig. S2. Microphotograph of O/W-CM at 0.1% LEO. The length of the red bar on each photograph is 100 μm .

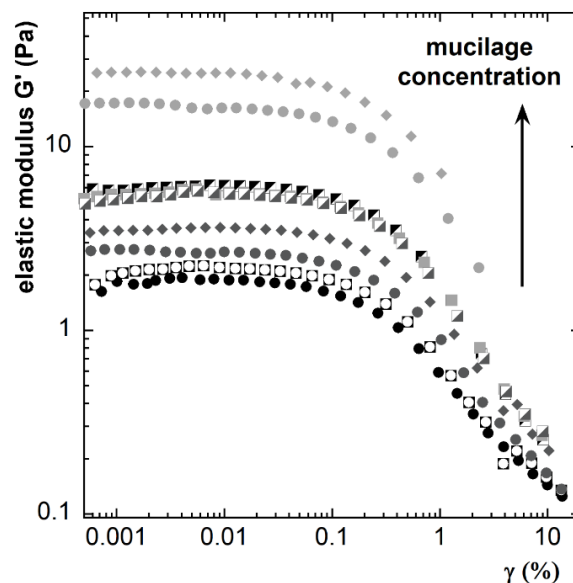


Fig. S3. Elastic modulus (G') as a function of the applied deformation (γ) on CM suspensions.

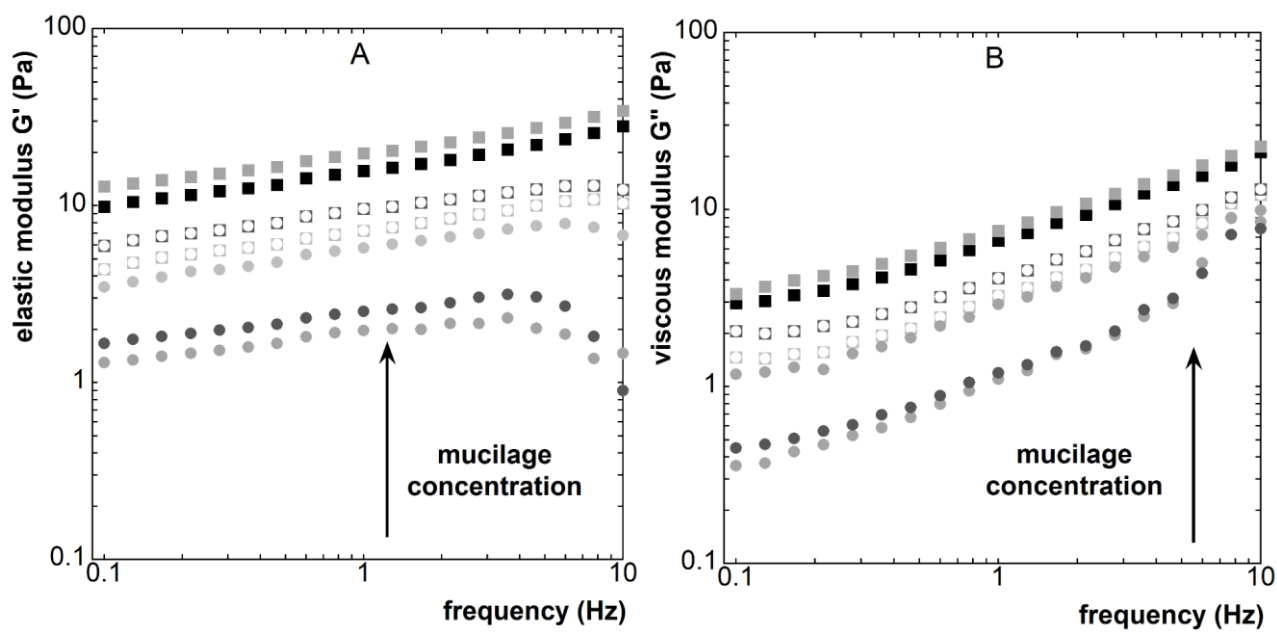


Fig. S4. Frequency sweep of CM suspensions; elastic modulus (A) and viscous modulus (B).