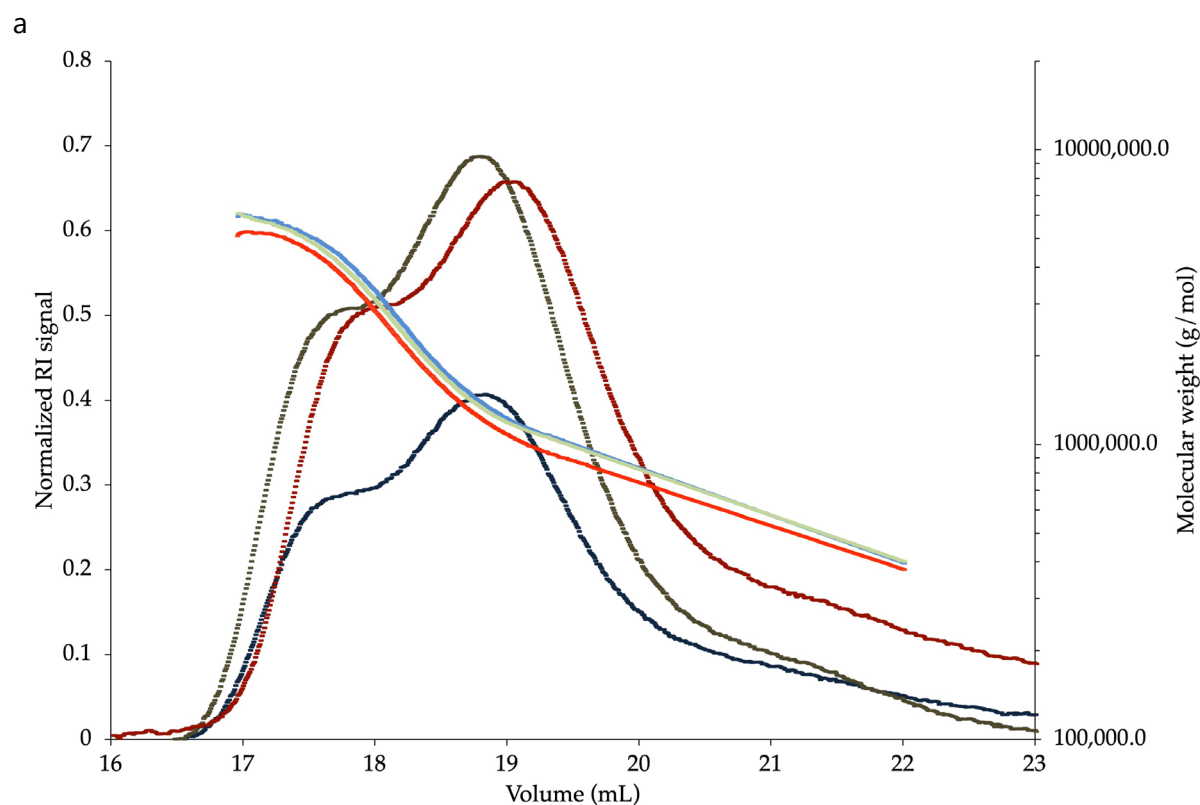


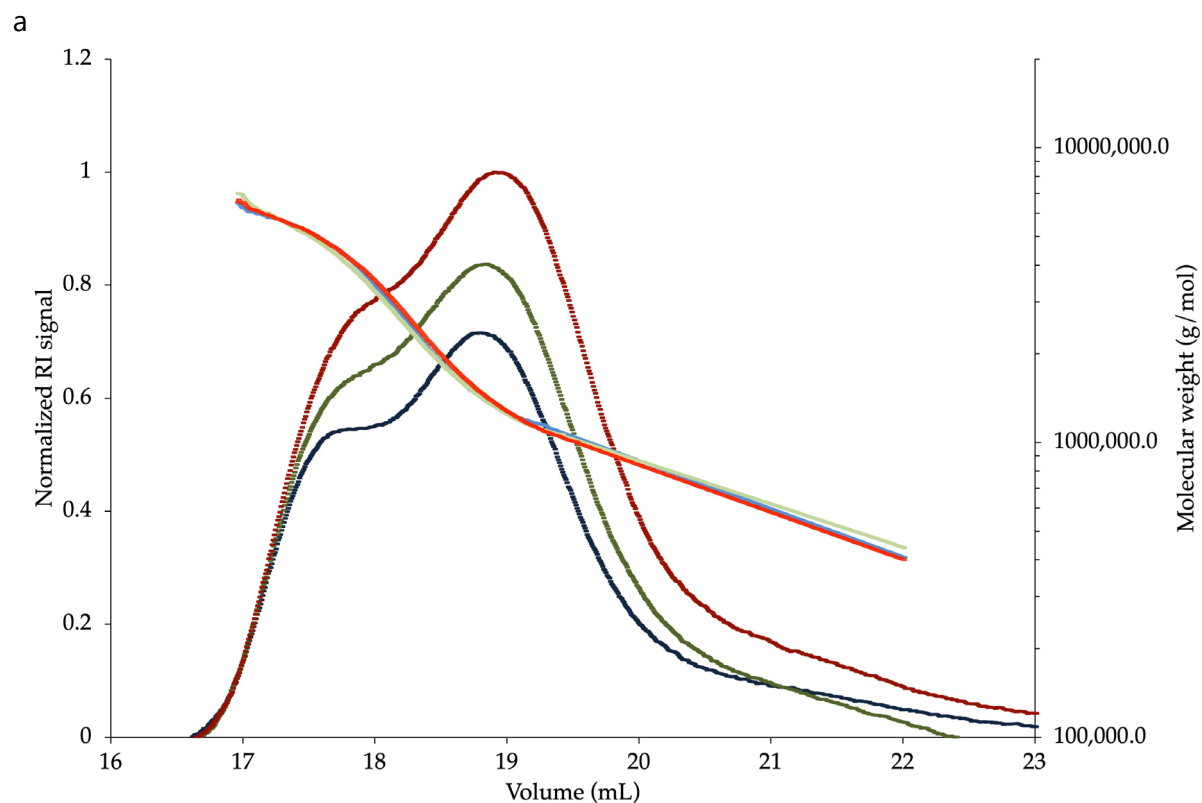
## Supplementary materials



b

Analysis time	Mn (g/mol)	Mw (g/mol)	Polydispersity (Mw/Mn)
0h	$1.282 \times 10^6$	$2.126 \times 10^6$	1.658
48h	$1.365 \times 10^6$	$2.175 \times 10^6$	1.594
72h	$1.130 \times 10^6$	$1.912 \times 10^6$	1.692

Figure S1. SEC-MALS analysis of flaxseed mucilage ( $1\text{g.l}^{-1}$ ) in NaOH solution (0.04 M) at different analysis times. (a) SEC-Mals profile (0 h: blue, 48 h: green and 72 h: red). Light curves are the molecular weight distribution, dark curves are the Refractive Index signal (RI). (b) SEC-MALS results (Mn: number average molecular weight, Mw: weight-average molecular weight, and polydispersity values (Mw/Mn)).



b

Analysis time	Mn (g/mol)	Mw (g/mol)	Polydispersity (Mw/Mn)
0h	$1.469 \times 10^6$	$2.334 \times 10^6$	1.589
48h	$1.473 \times 10^6$	$2.246 \times 10^6$	1.524
72h	$1.339 \times 10^6$	$2.157 \times 10^6$	1.611

Figure S2. SEC-MALS analysis of flaxseed mucilage ( $1\text{g.l}^{-1}$ ) in  $\text{Ca}(\text{OH})_2$  solution (0.02 M) at different analysis times. (a) SEC-MALS profile (0 h: blue, 48 h: green and 72 h: red). Light curves are the molecular weight distribution, dark curves are the Refractive Index signal (RI). (b) SEC-MALS results (Mn: number average molecular weight, Mw: weight-average molecular weight, and polydispersity values (Mw/Mn)).