

## Supporting Information

Table S1.

SEC analysis (RI, RALS, LALS, and visc) of analyzed products

Sample	Ret. vol. [mL]	$M_n$	$M_w$	$\mathcal{D}$	Remarks
Se-Le-30	18.58	$1.69 \times 10^6$	$3.62 \times 10^6$	2.15	Bimodal signal for all detectors
A/B-C	18.48	$1.72 \times 10^6$	$2.18 \times 10^6$	1.27	Bimodal signal for LS and visc detectors
A	18.49	$1.82 \times 10^6$	$2.25 \times 10^6$	1.24	Bimodal signal for LS detectors
B-C	20.05	$5.06 \times 10^4$	$1.10 \times 10^5$	2.18	Bimodal signal for LS detectors

The OmniSEC calculation was based on glucan standard (glu-245).  $\mathcal{D}$  (dispersity) represents  $M_w/M_n$

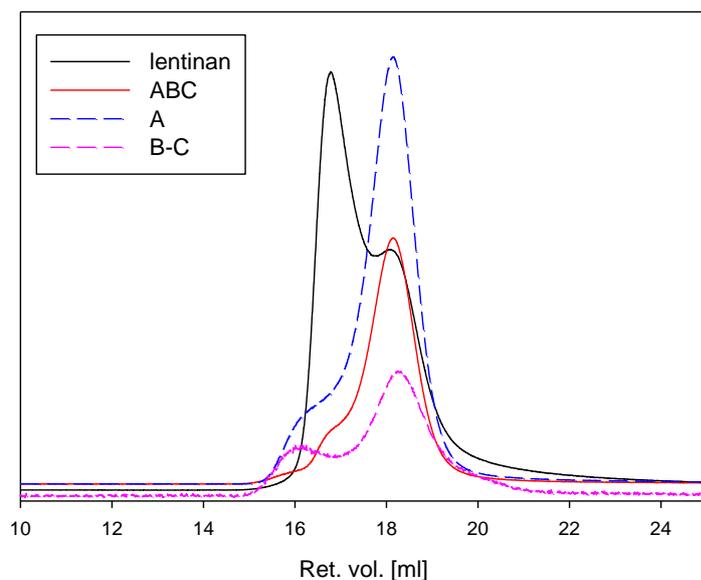


Figure S1. RALS traces for *Se-Le-30* and fractions A, A/B-C, and B-C.

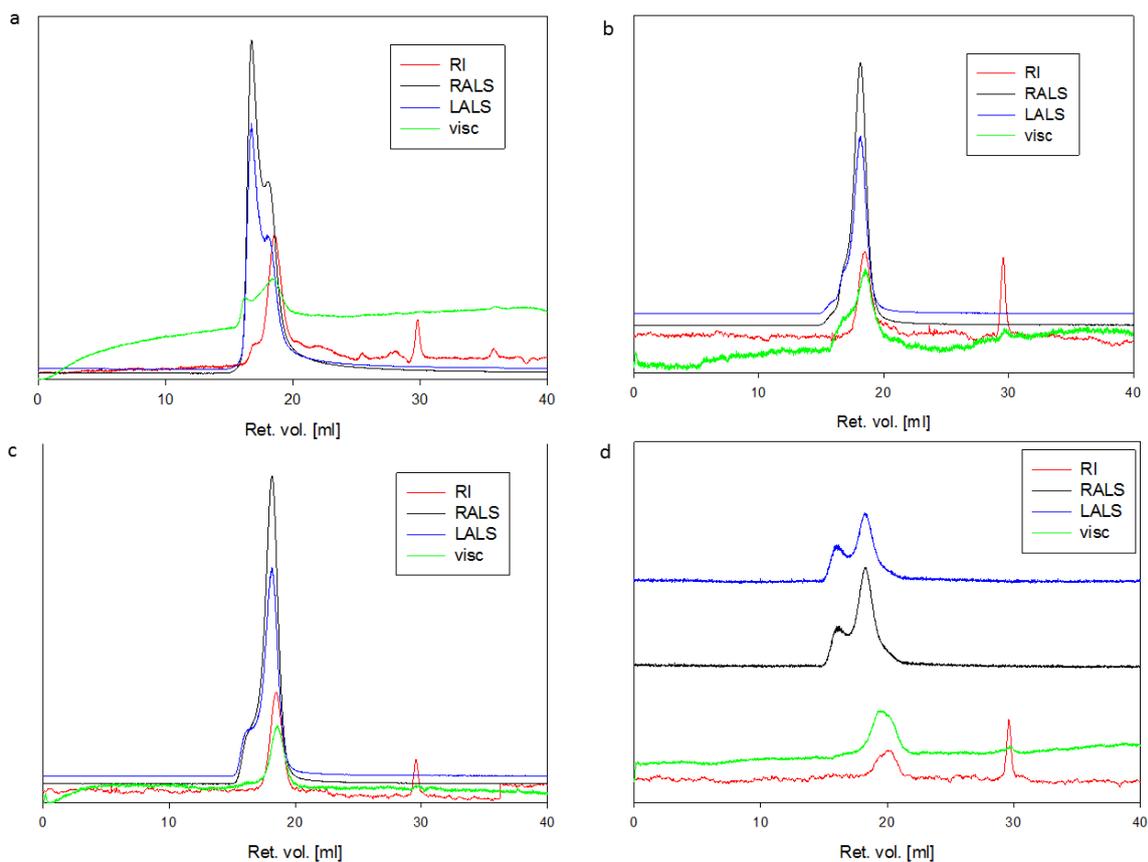


Figure S2. SEC traces. (a) *Se-Le-30*; (b) *A/B-C* fraction; (c) *A* fraction; (d) *B-C* fraction

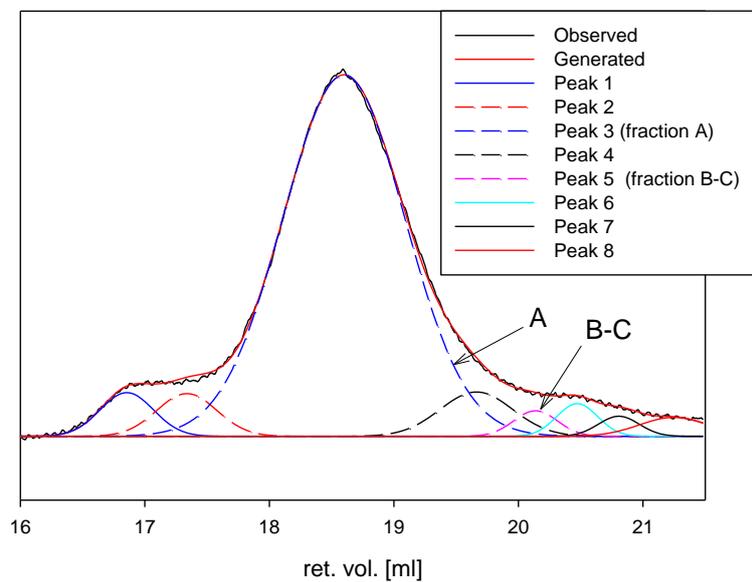


Figure S3. Deconvolution of the *Se-Le-30* RI signal. Curves corresponding to fractions *A* and *B-C* are marked by arrows.

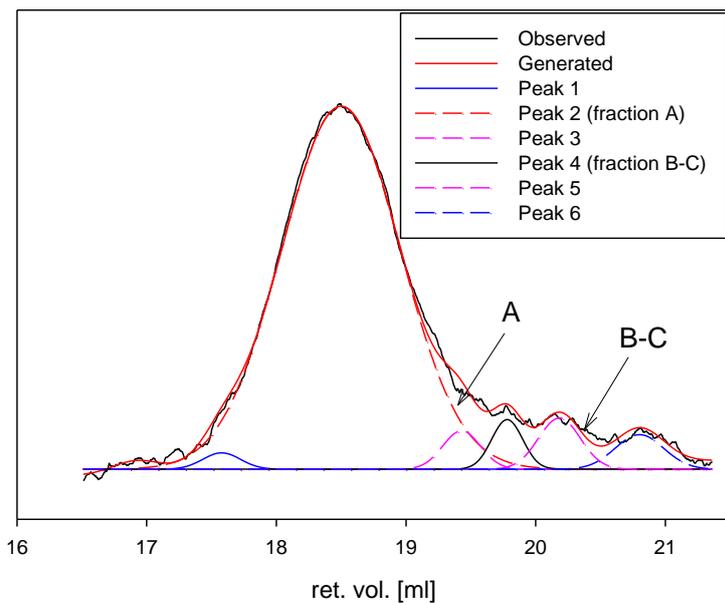


Figure S4. Deconvolution of the RI signal of product *A/B-C*. Curves corresponding to fractions *A* and *B-C* are marked by arrows.

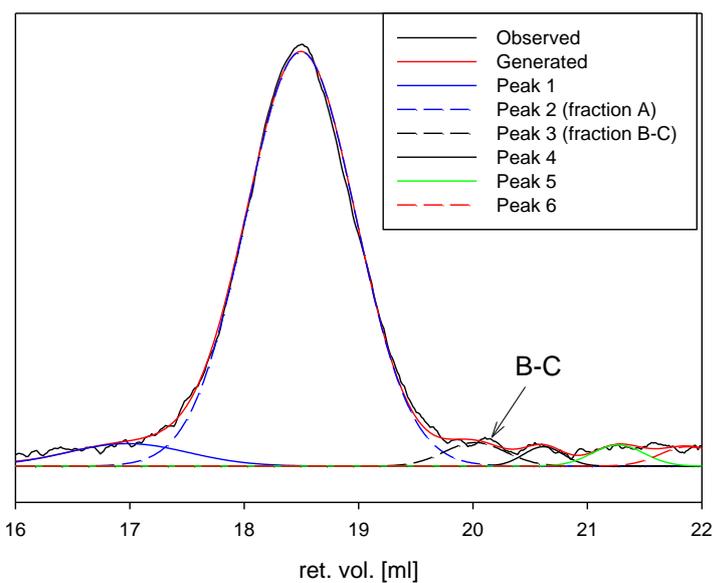


Figure S5. Deconvolution of the RI signal of product *A*. The curve corresponding to fraction *B-C* is marked by an arrow.