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Supplementary Materials: Octanoic Hydrazide-Linked Chitooligosaccharides-2,5-Anhydro-D-Mannofuranose

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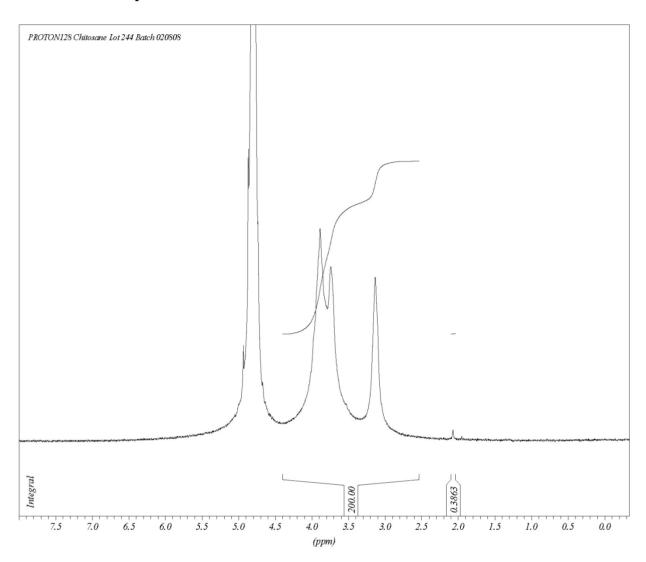


Figure S1. ¹H-NMR spectrum (D₂O, 300 MHz) of commercial, fully *N*-deacetylated chitosan.

Size-exclusion chromatography (SEC): SEC was performed on a chromatographic equipment composed of a 1260 Infinity Agilent Technologies pump connected to two TSK gel G2500 and G6000 columns (Tosoh Bioscience, Tessenderlo, Belgium) in series. A multi-angle laser light-scattering (MALLS) detector Dawn EOS (Wyatt Technology, Toulouse, France) operating at 690 nm was coupled on-line to a Wyatt Optilab T-Rex differential refractometer. Sample solutions at 1–2 mg/mL were prepared and eluted in AcOH (0.2 M)/AcONH4 (0.15 M) buffer (pH = 4.5). Solutions were previously filtered through 0.22 μ m pore-size membranes (Millipore, Molsheim, France) before injection. The eluent flow rate was 0.5 mL/min. The refractive index increment dn/dc used for molar mass calculations was equal to 0.198 cm³·g⁻¹.

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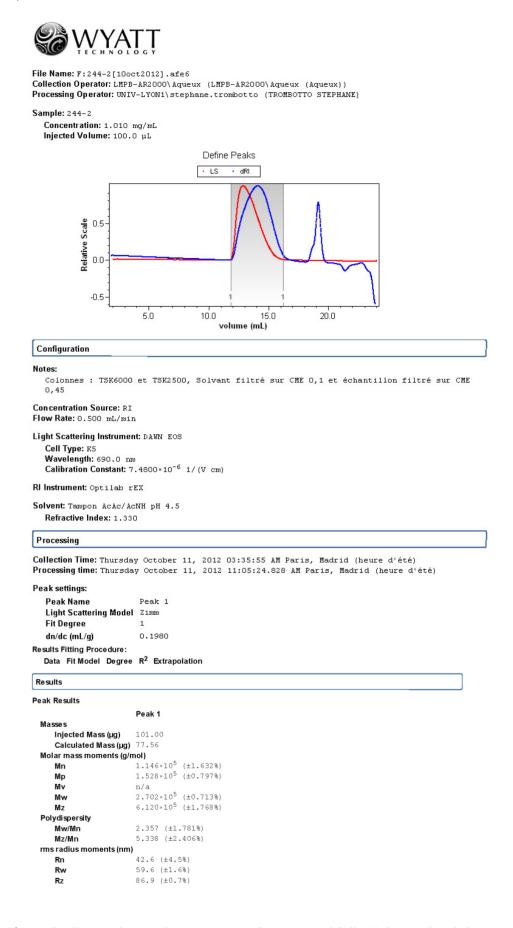


Figure S2. Size-exclusion chromatogram of commercial fully *N*-deacetylated chitosan.

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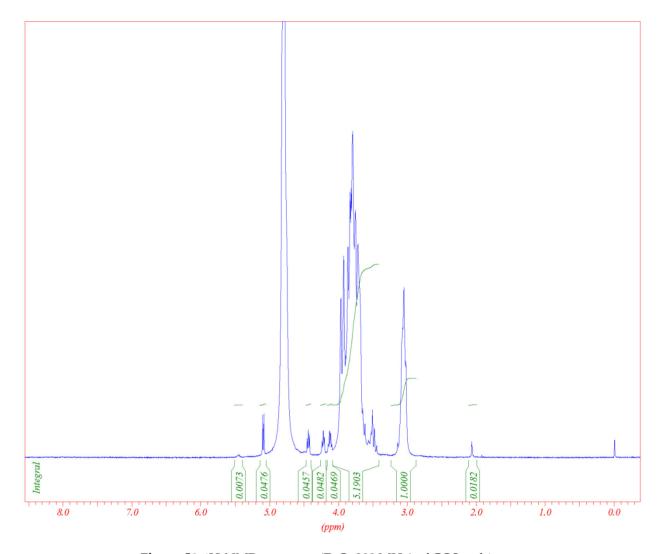


Figure S3. $^1\text{H-NMR}$ spectrum (D2O, 300 MHz) of COSamf 1.

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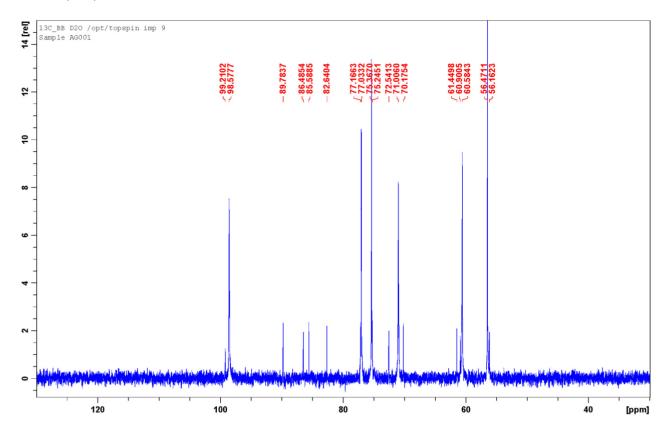


Figure S4. ¹³C-NMR spectrum (D₂O, 125 MHz) of COSamf 1.

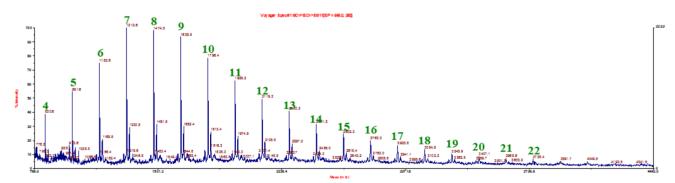


Figure S5. MALDI-TOF mass spectrum (positive linear mode) of COSamf **1**. (Note that for each oligomer peak, the number of GlcN unit into the chain is given in green).

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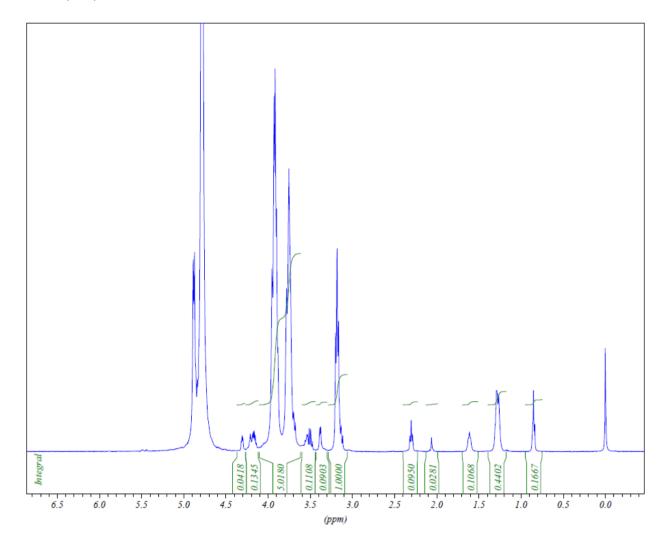


Figure S7. ¹H-NMR spectrum (D₂O, 300 MHz) of octanoïc acid—linked chitooligosaccharide-2,5-anhydro-D-mannofuranose (2)

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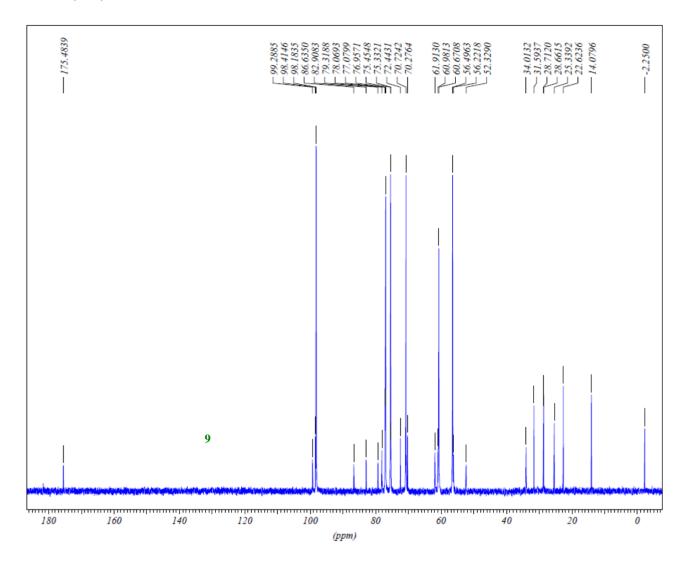


Figure S8. ¹³C-NMR spectrum (D₂O, 500 MHz) of octanoïc acid—linked chitooligosaccharide-2,5-anhydro-D-mannofuranose (2)

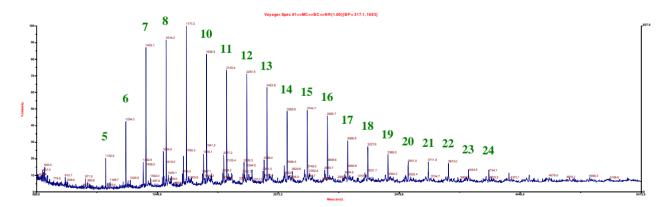


Figure S9. MALDI-TOF mass spectrum (positive reflectron mode) of octanoïc acid—linked chitooligosaccharide-2,5-anhydro-D-mannofuranose (2) (Note that for each oligomer peak, the number of GlcN unit into the chain is given in green).