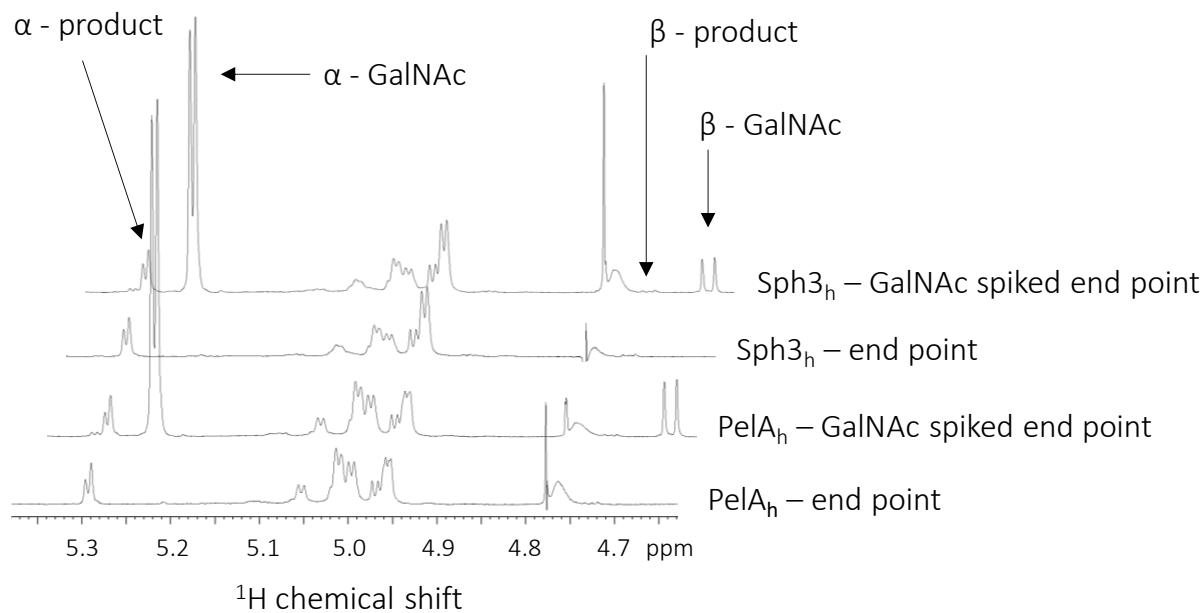


Supplemental Figure 1. 2D COSY ^1H - ^1H spectra of the products released by (A) Sph3_h and (B) PelA_h treatment of α -1,4-GalNAc octamers, observed between 1.2 and 5.5ppm in each dimension. The areas containing the signals of the anomeric protons were magnified in the right panels with an arrow indicating the chemical shift of the β anomer signal.



Supplemental figure 2. Sph_{3h} and PelA_h do not release monosaccharides upon degradation. NMR spectra of the products of Sph_{3h} and PelA_h digestion of α-1,4-GalNAc octamers with, and without, the addition of GalNAc to the final reaction products.