

Supplementary Information

Figure S1. ^{13}C NMR (90 MHz) (A) and ^1H NMR spectra (600 MHz) (B) of the *O*-deacetylated OPS of *A. bestiarum* strain K296. Capital letters and Arabic numerals refer to atoms in sugar residues denoted as shown in Table 2. A, Manp; B, terminal 6dTalp; C, 6dTalp; D, GalpNAc; NAc, *N*-acetyl group (δ_{C} 23.0; δ_{H} 2.05); IS, acetone as internal standard (δ_{C} 31.07); Spectra were recorded at 32 °C in D_2O as a solvent.

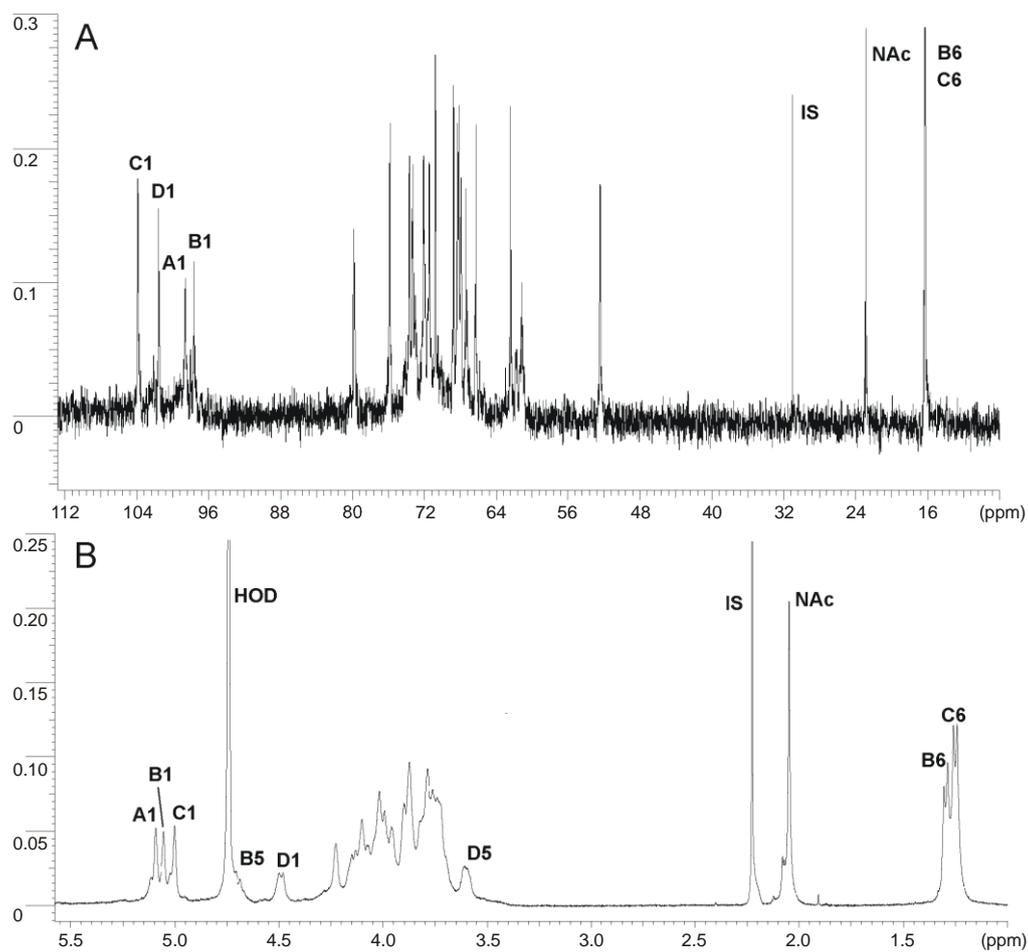
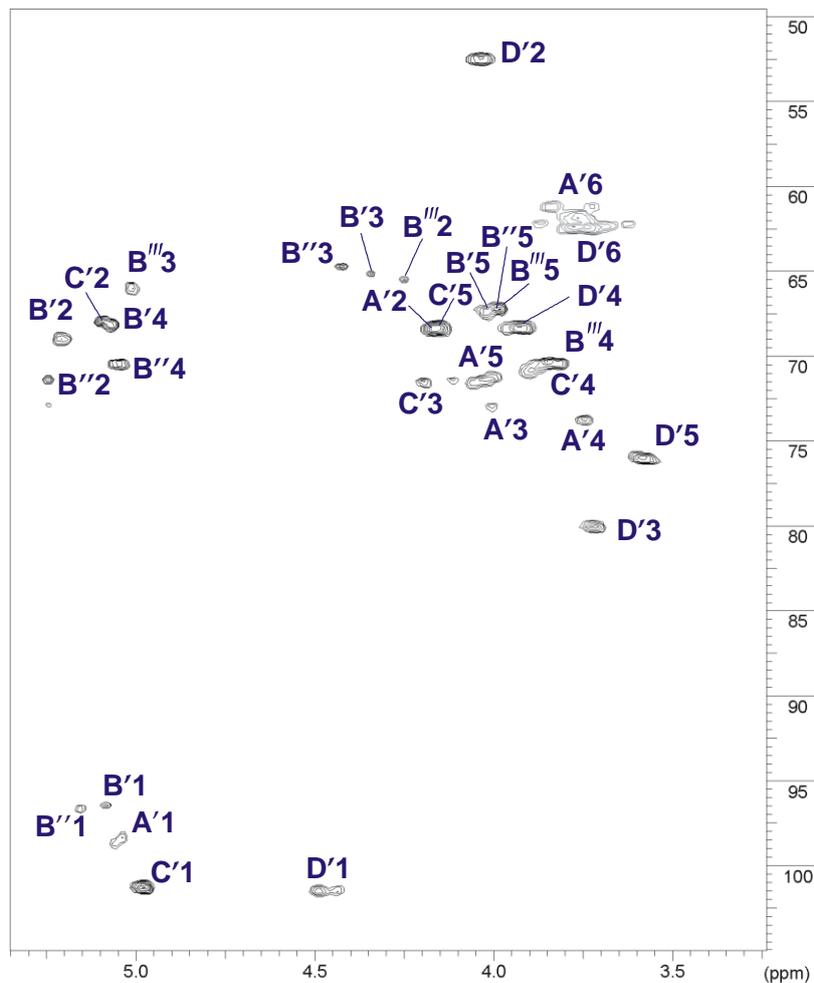


Figure S2. Part of a ^1H - ^{13}C HSQC spectrum (600×150 MHz, D_2O) of the initial OPS of *A. bestiarum* strain K296. The corresponding parts of the ^1H and ^{13}C NMR spectra are displayed along the horizontal and vertical axis, respectively. Capital letters and Arabic numerals refer to atoms in sugar residues, denoted as shown in Table 3. A', Manp; B' and B'', 2,4-di-*O*-acetylated terminal 6dTalp residues; B''', 3-*O*-acetylated terminal 6dTalp; C', 2-*O*-acetylated 6dTalp; D', GalpNAc.



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