Supporting Information

for

Elucidation of a masked repeating structure of the O-specific polysaccharide of the halotolerant soil bacteria *Azospirillum halopraeferens* Au4

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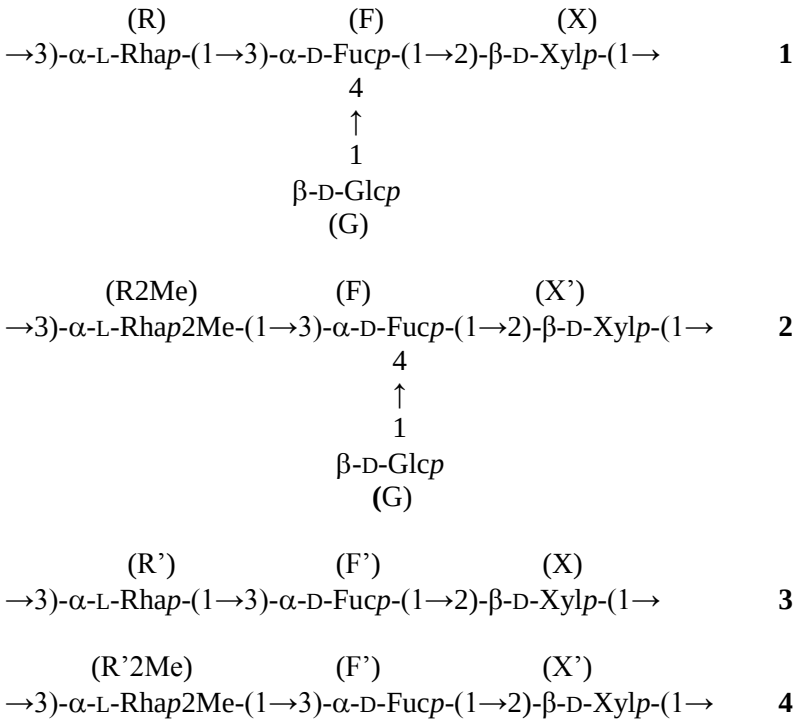
^{1}H and ^{13}C NMR spectroscopy data of the O-specific polysaccharide and of the oligosaccharides 1, 2 and 3.

Content

NMR spectroscopy data of the OPS from *A. halopraeferens* Au4 and of the oligosaccharides obtained after selective cleavages of the OPS.



Scheme S1: Structures of the repeating units of the OPSs from *A. halopraeferens* Au4.

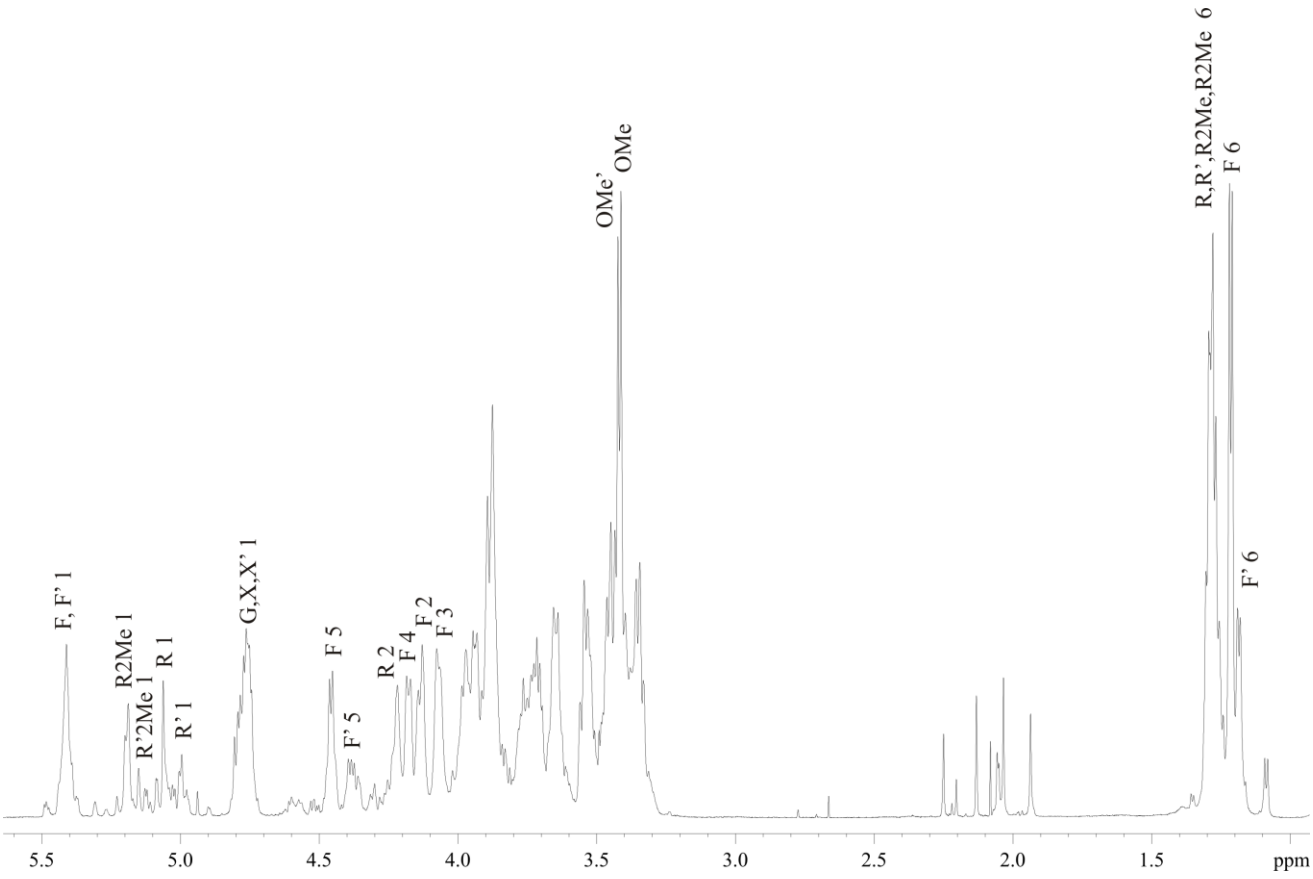


Figure S1: ^{1}H NMR spectrum of the OPS from *A. halopraeferens* Au4. Arabic numerals refer to protons in sugar residues as denoted in Scheme S1.

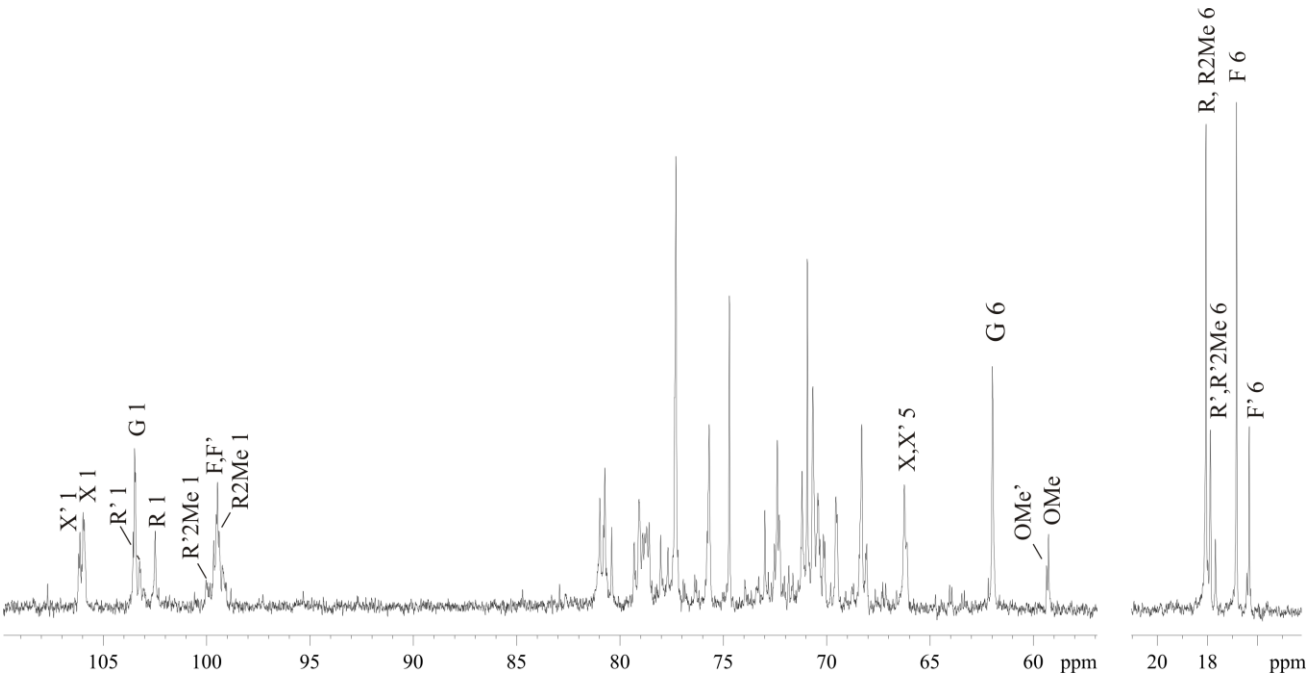


Figure S2: ^{13}C NMR spectrum of the OPS from *A. halopraeferens* Au4. Arabic numerals refer to carbons in sugar residues as denoted in Scheme S1.

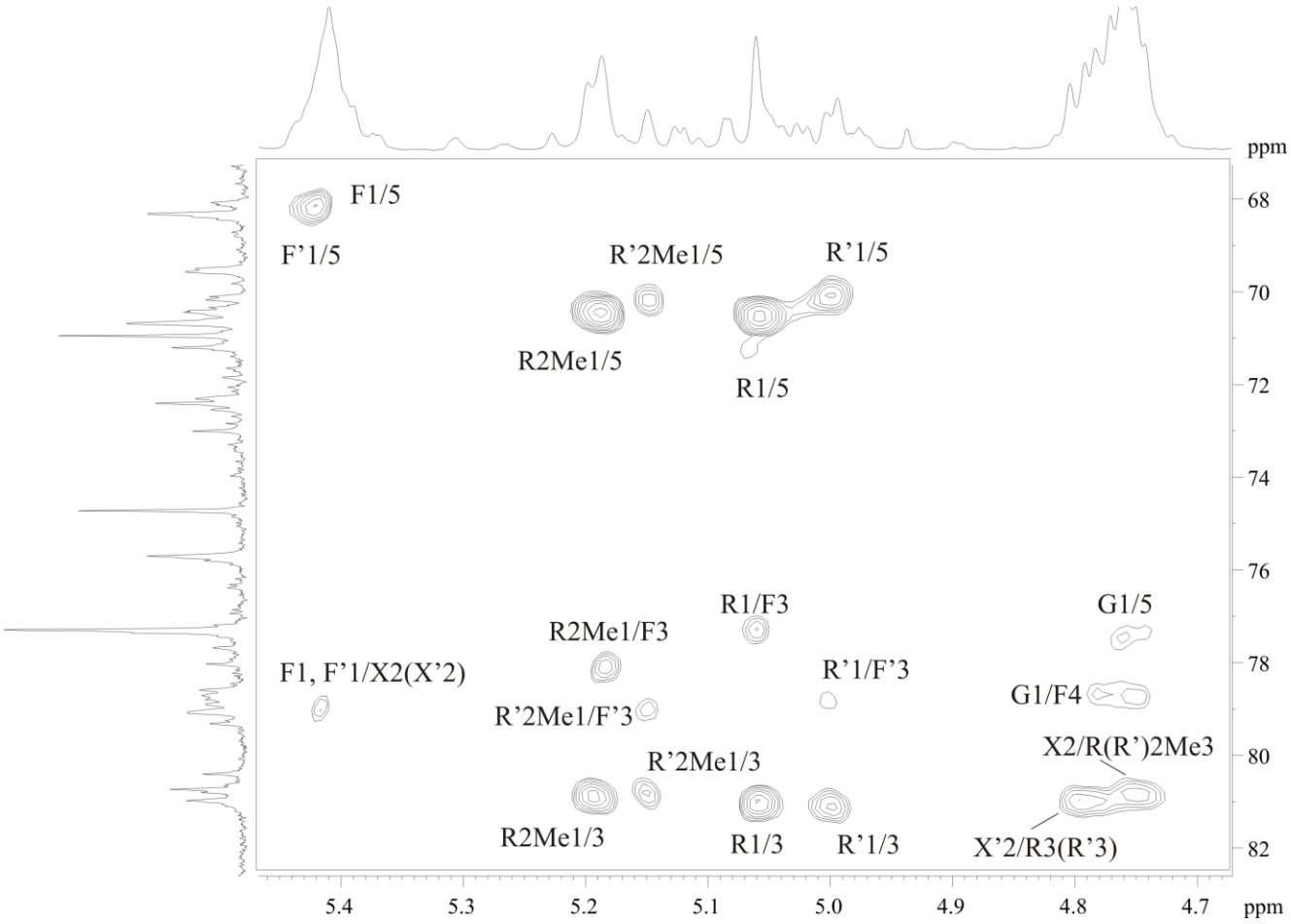


Figure S3: Fragment of the ^{1}H, ^{13}C HMBC spectrum of the OPS from *A. halopraeferens* Au4. Arabic numerals refer to C/H correlations in sugar residues as denoted in Scheme S1.

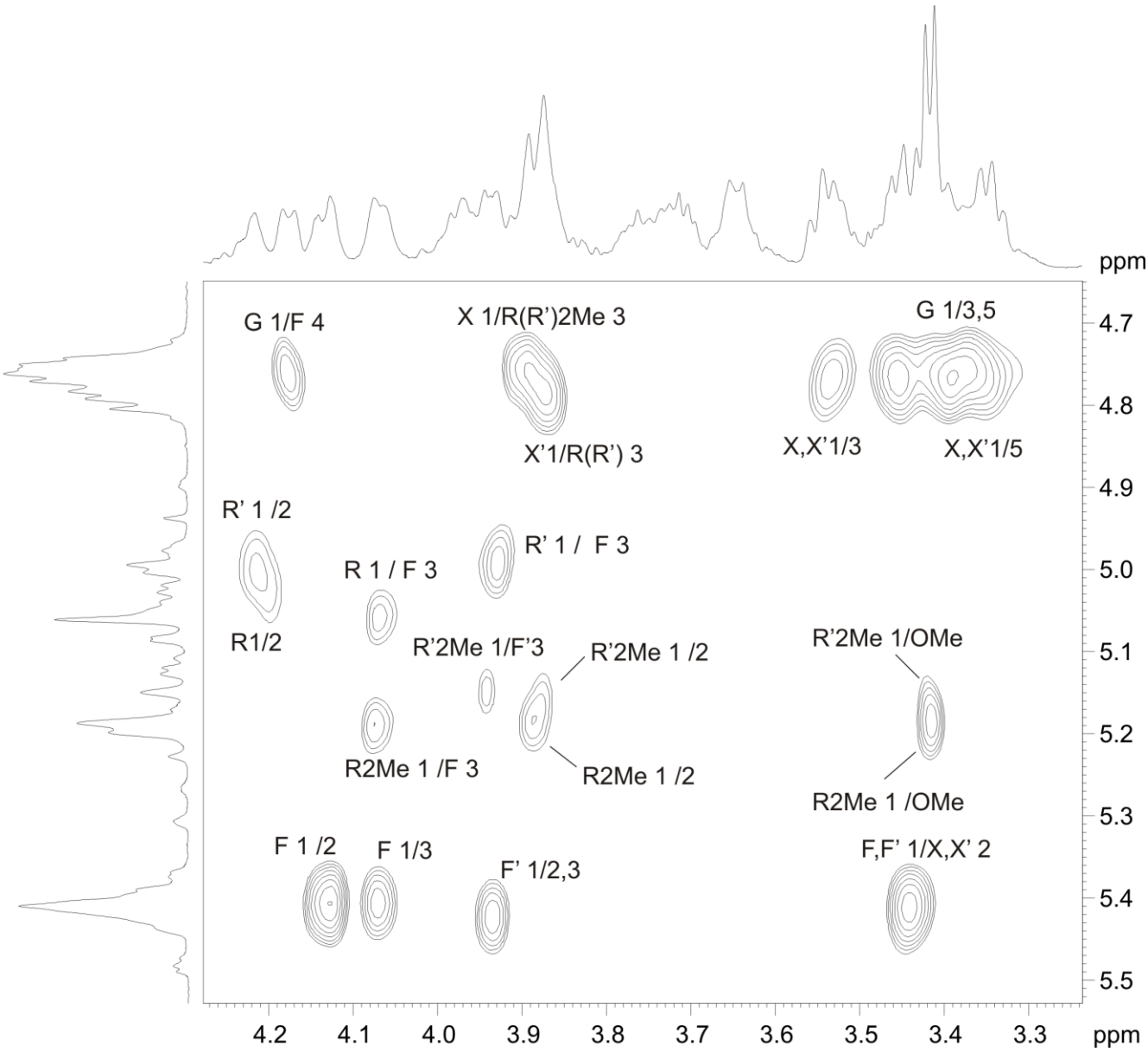


Figure S4: Fragment of the ^{1}H, ^{1}H ROESY spectrum of the OPS from *A. halopraeferens* Au4. Arabic numerals refer to C/H correlations in sugar residues as denoted in Scheme S1.

(R) (F)
α-L-Rha*p*-(1→3)-α-D-Fuc*p*-(1→2)-Gro **1**

(R2Me) (F)
α-L-Rha*p*-(1→3)-α-D-Fuc*p*-(1→2)-Gro **2**
2
|
OMe

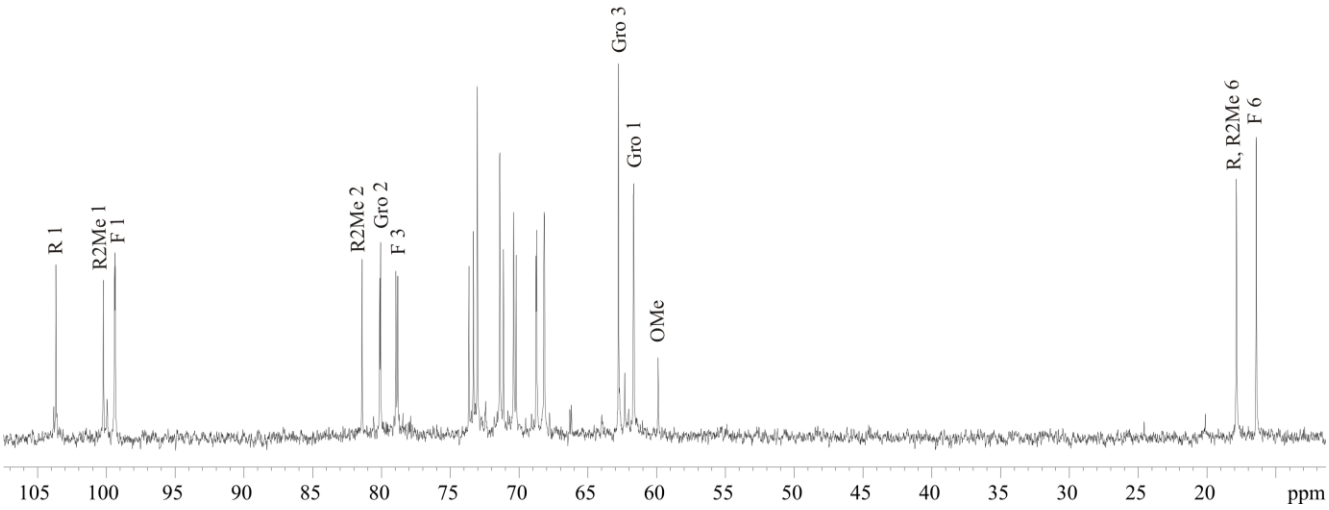


Figure S5: ^{13}C NMR spectrum of the mixture of the oligosaccharides **1** and **2** obtained after Smith degradation of the OPS from *A. halopraeferens* Au4. Arabic numerals refer to carbons in sugar residues as denoted.

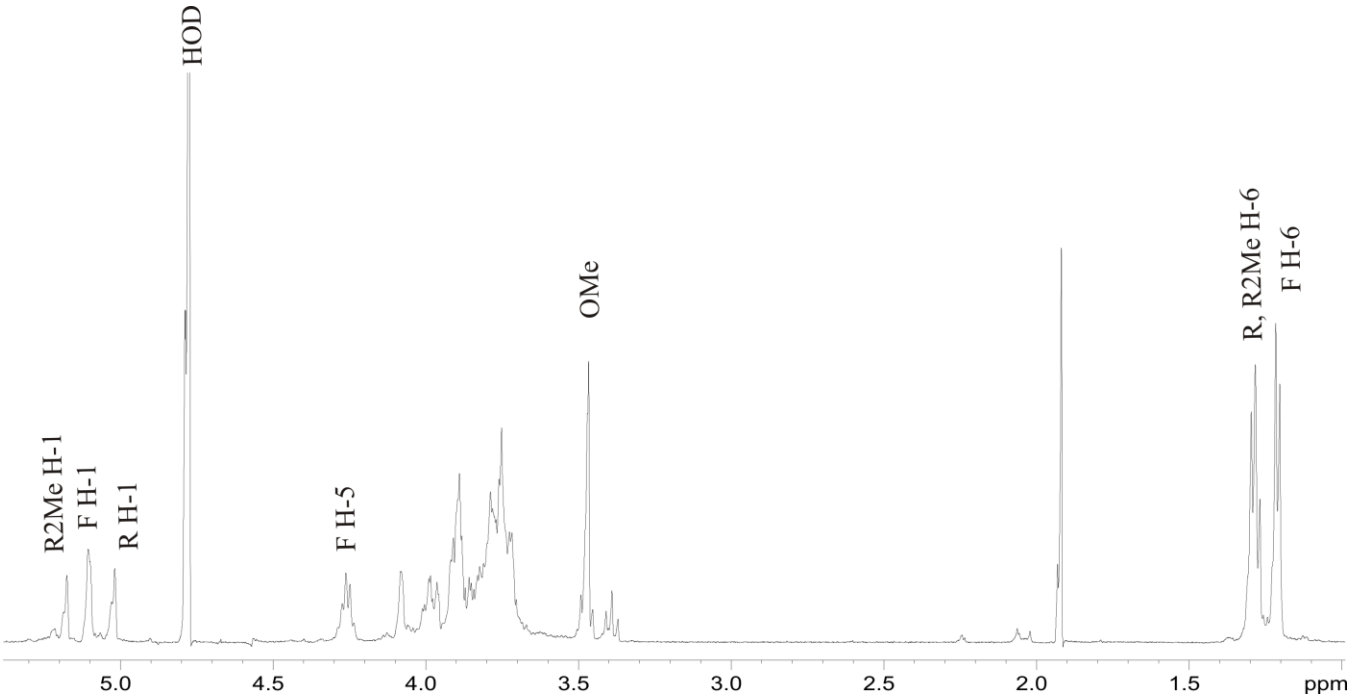


Figure S6: ^{1}H NMR spectrum of the mixture of the oligosaccharides **1** and **2** obtained after Smith degradation of the OPS from *A. halopraeferens* Au4. Arabic numerals refer to protons in sugar residues as denoted in Figure S5.

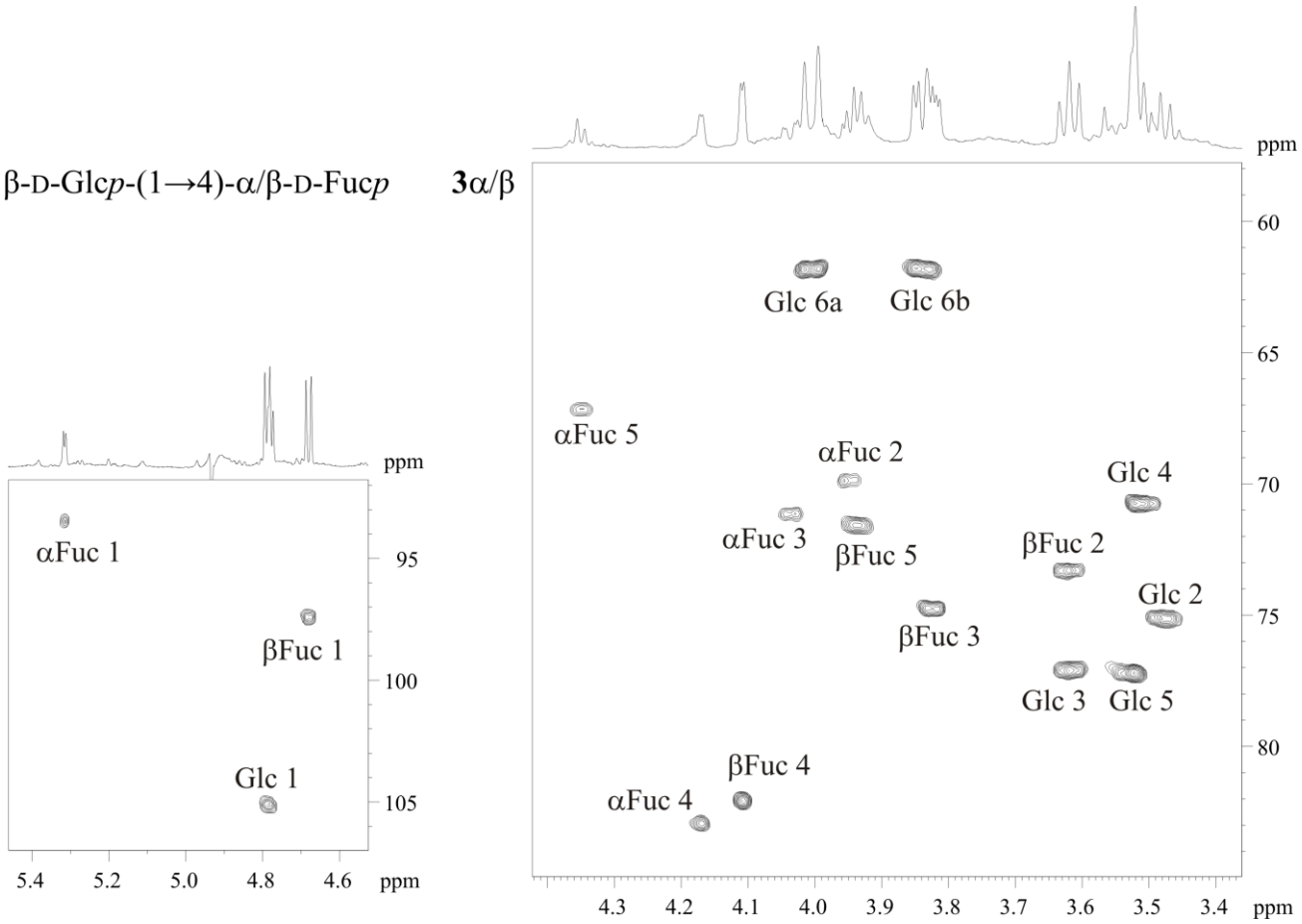


Figure S7: Fragments of the ^{1}H, ^{13}C HSQC spectrum of the disaccharide **3** obtained after solvolysis of the OPS from *A. halopraeferens* Au4. Arabic numerals refer to H, C pairs in sugar residues.