

Supplementary Table 1. U-HPLC analysis of CM- β -MOS mixture generated from copra meal after ManB-1601 hydrolysis

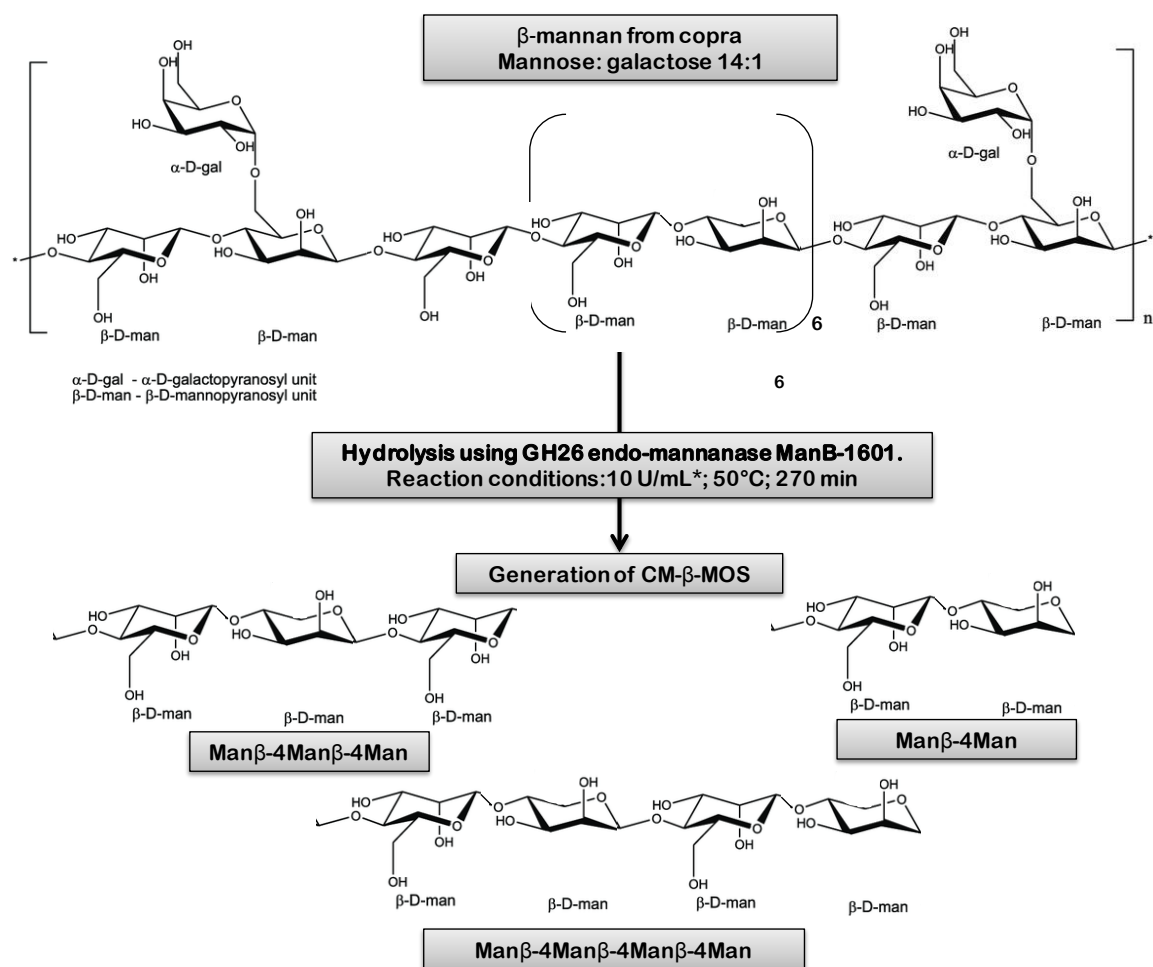
Peak Number	C-β-MOS (DP)	Retention Time (RT)	Area	Height
1	1	3.581	39649	2933
2	2	5.582	1633884	57854
3	2	6.398	155683	17531
4	3	8.138	1389164	75617
5	4	10.283	1169958	59585

DP: Degree of polymerization

Supplementary Table 2. Production of short chain fatty acids by *Lactobacillus* sp. in fermentation broth supplemented with CM-β-MOS mixture

[illegible]

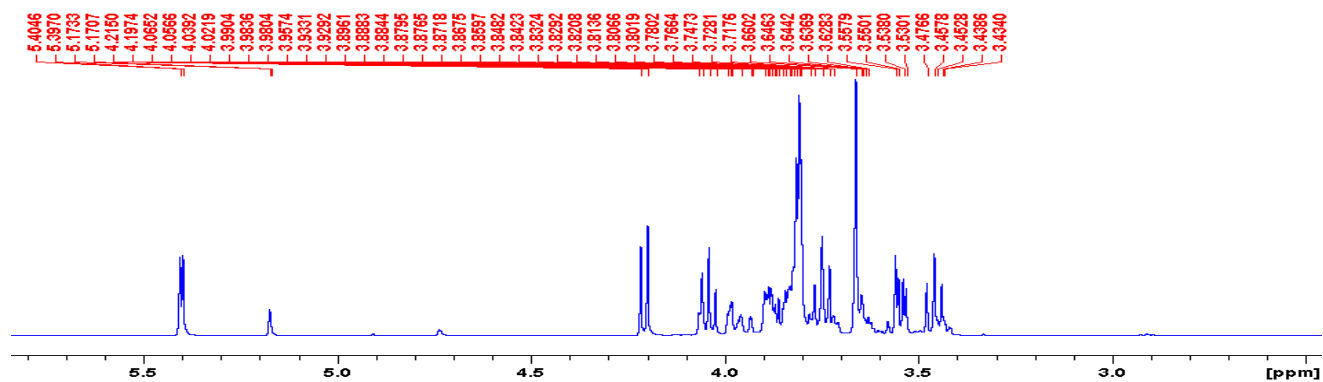
Supplementary Figure 1: Schematic representation of the copra meal β -mannan hydrolysis by ManB-1601



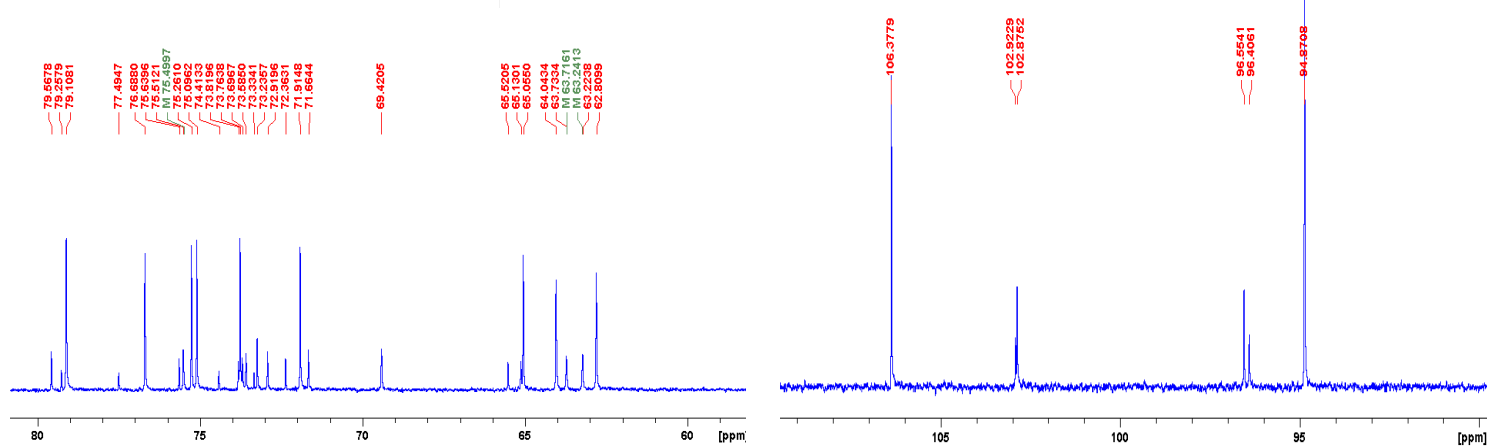
* Further, increase in enzyme concentration (100 U/mL) marginally did not lead to corresponding increase in the oligosaccharide yield (0.3-fold higher; 334.5 mg/g substrate).

Supplementary Figure 2. (A) 1D ^1H -NMR, (B) 1D $^{13}\text{C}\{^1\text{H}\}$ -NMR and (C) 2D ^1H - ^{13}C HMBC of DP2
CM- β -MOS CM- β -MOS MOS

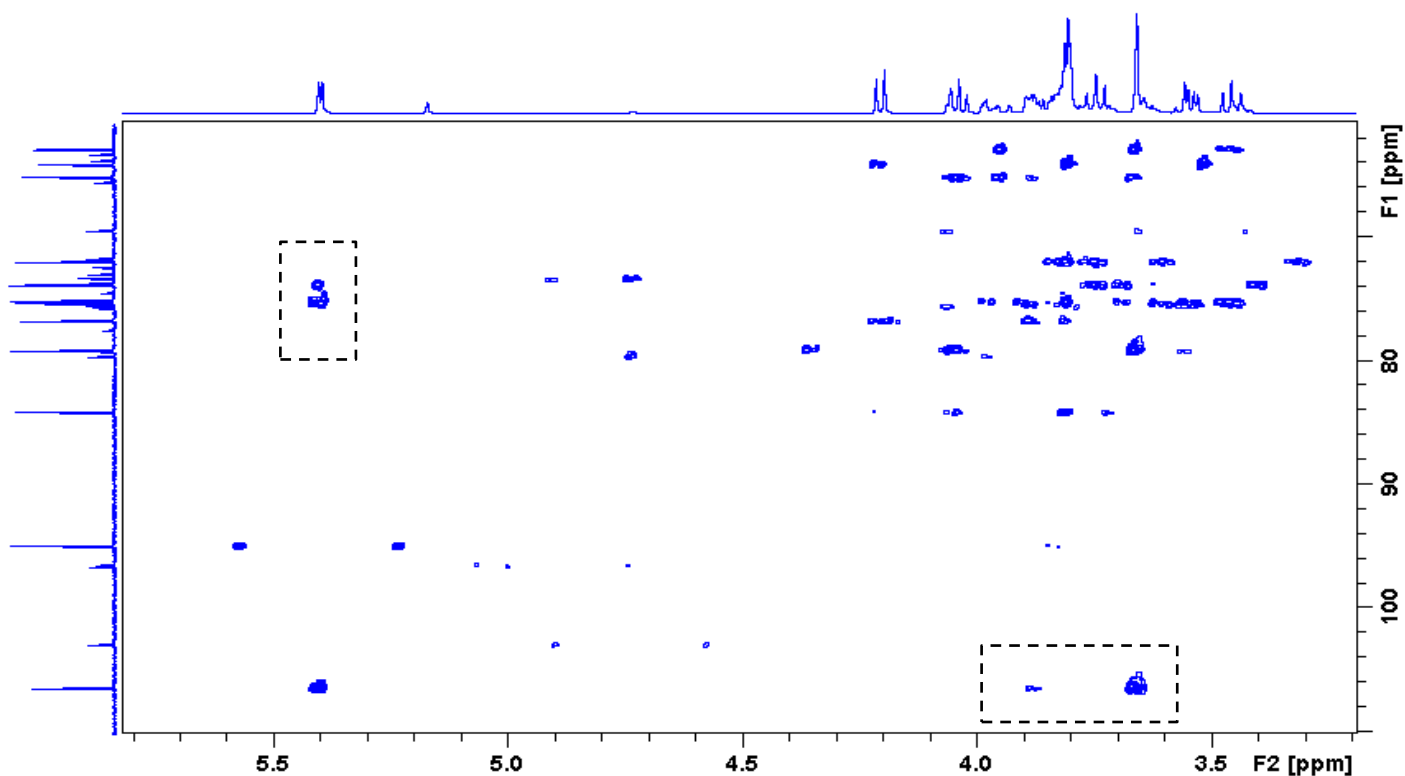
(A)



(B)

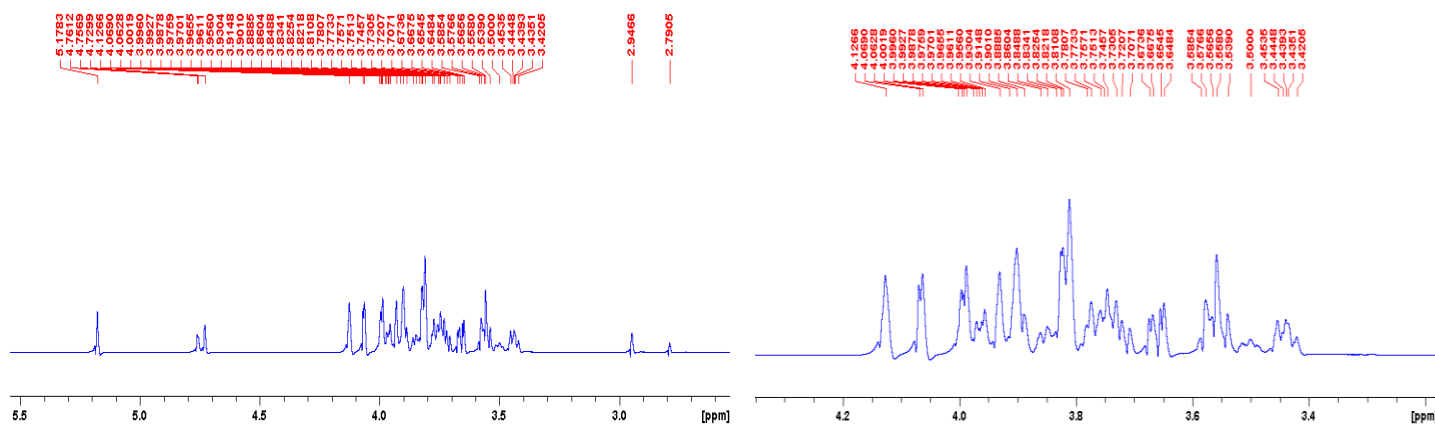


(C)

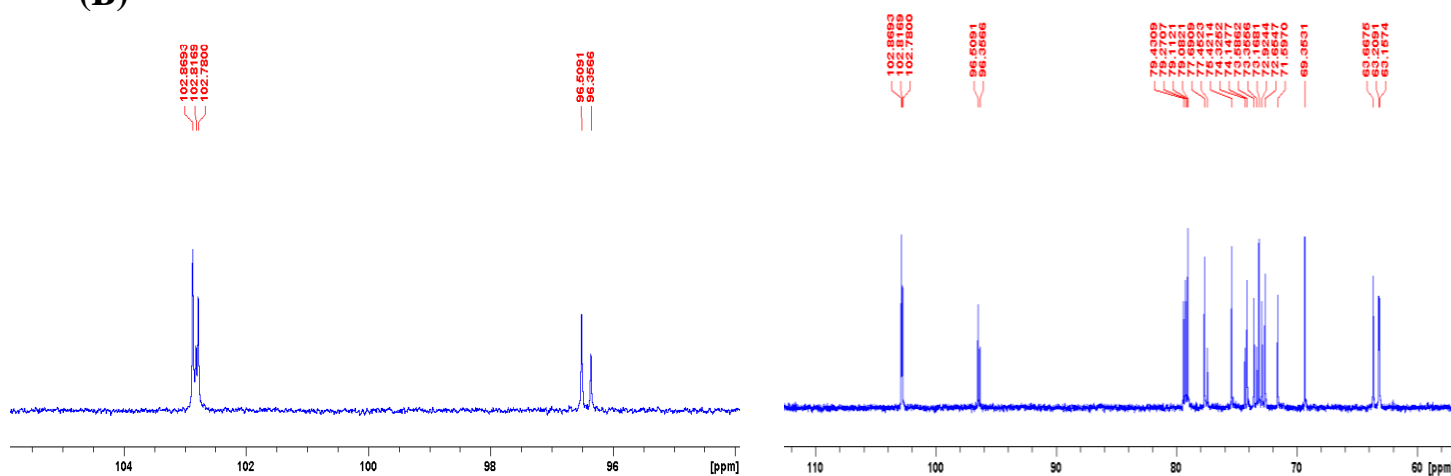


Supplementary Figure 3. (A) 1D ^1H -NMR, (B) 1D $^{13}\text{C}\{^1\text{H}\}$ -NMR and (C) 2D ^1H - ^{13}C HMBC of DP3 CM- β -MOS CM- β -MOS MOS

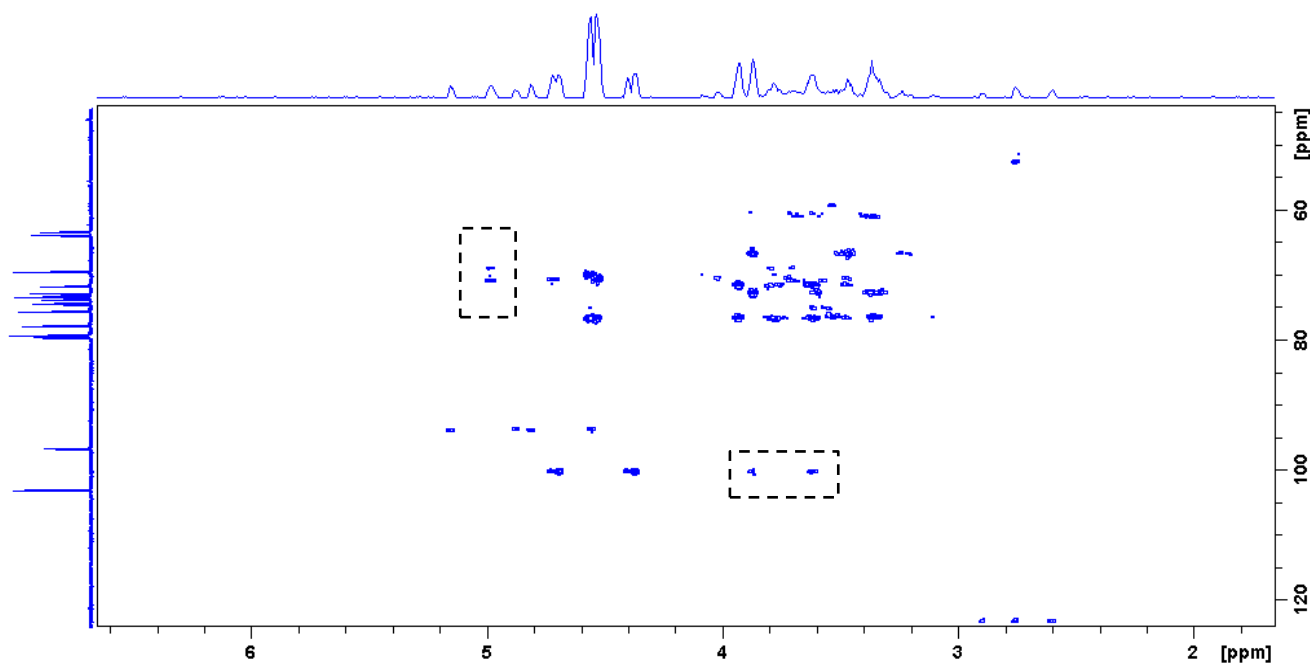
(A)



(B)

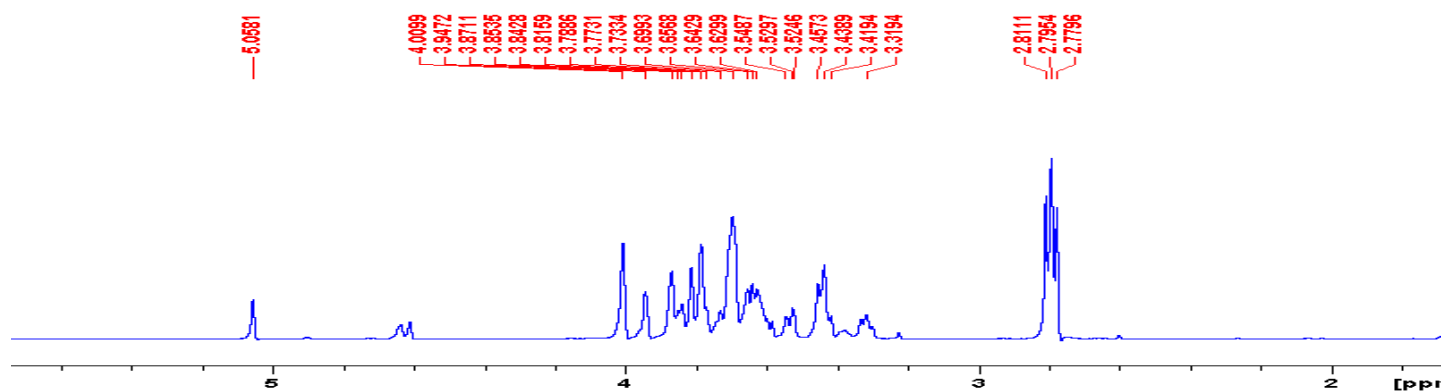


(C)

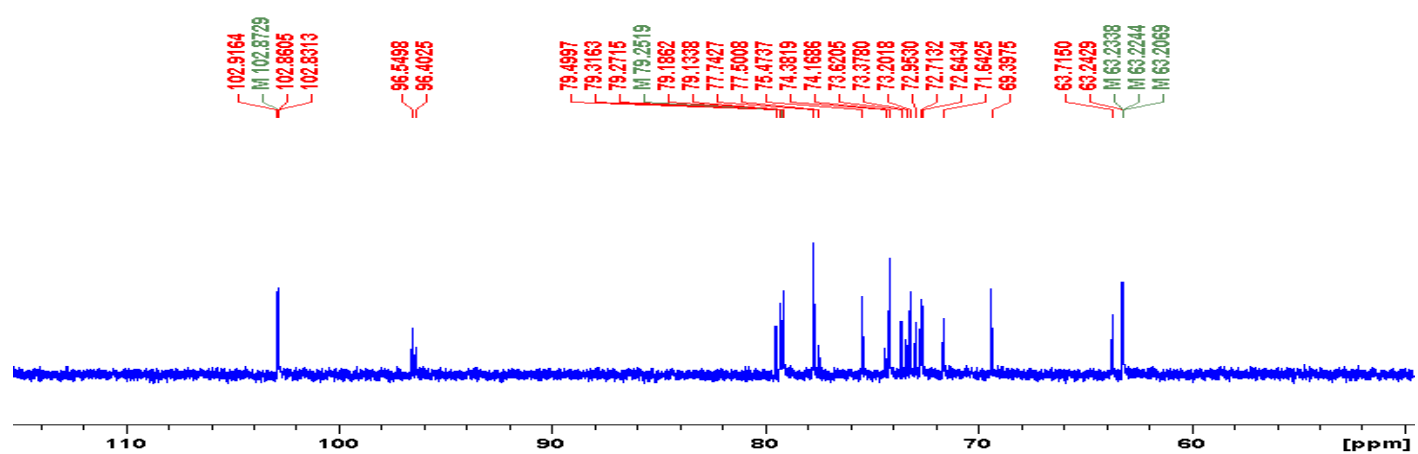


Supplementary Figure 4. (A) 1D ^1H -NMR, (B) 1D $^{13}\text{C}\{^1\text{H}\}$ -NMR and (C) 2D ^1H - ^{13}C HMBC of DP4 CM- β -MOS CM- β -MOS MOS

(A)



(B)



(C)

