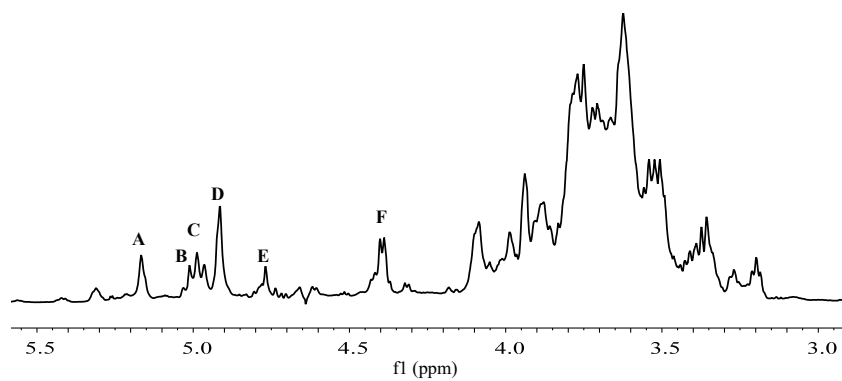


## Supplementary Materials:

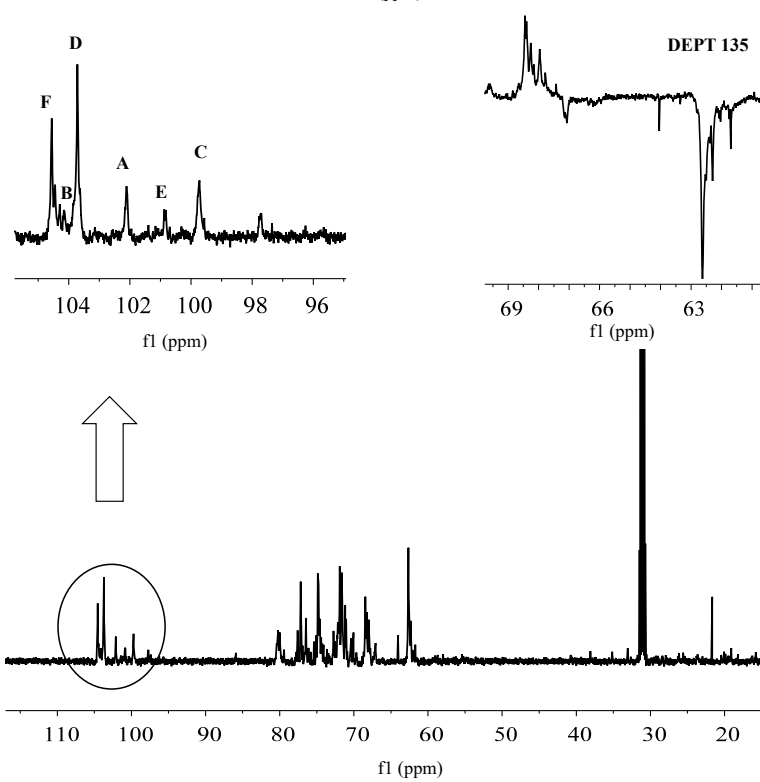


**Figure S1.** Growth morphology of *D. Hansenii* DH-1 on agar plate.

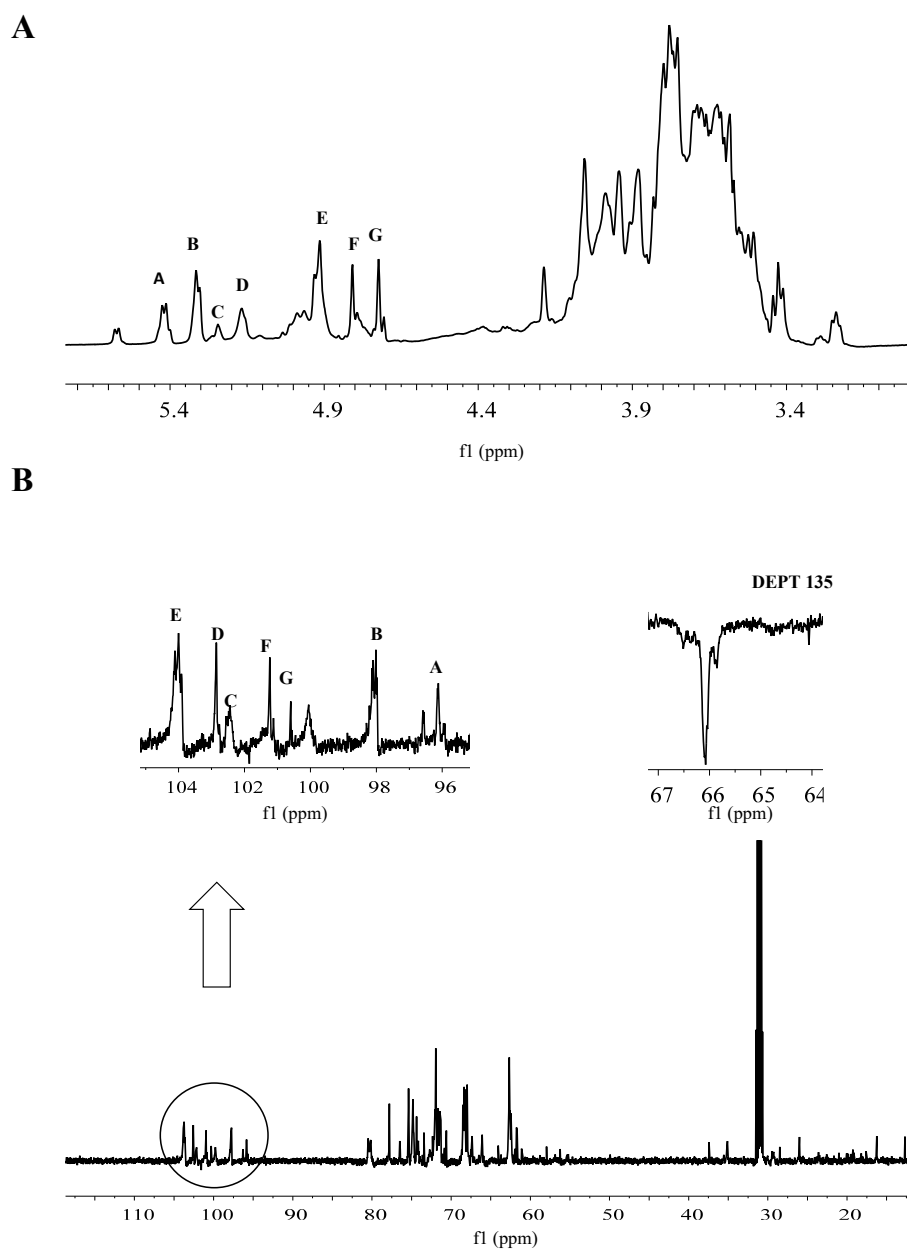
**A**



**B**



**Figure S2.** NMR spectrum analysis of S1. (A)  $^1\text{H}$  spectrum, (B)  $^{13}\text{C}$  spectrum.



**Figure S3.** NMR spectrum analysis of S2. (A)  $^1\text{H}$  spectrum, (B)  $^{13}\text{C}$  spectrum.

**Table S1.** Molecular Weight Averages of EPSs.

Polysaccharides	Mp (g/mol)	Mn (g/mol)	Mw (g/mol)	Mz (g/mol)	Mz+1 (g/mol)
S1	13869	13655	34594	138813	321152
S2	8833	12988	24657	91134	255994