

ELECTRONIC SUPPLEMENTARY INFORMATION

Imprinting of Stöber particles for chirally-resolved adsorption of target monosaccharides and disaccharides

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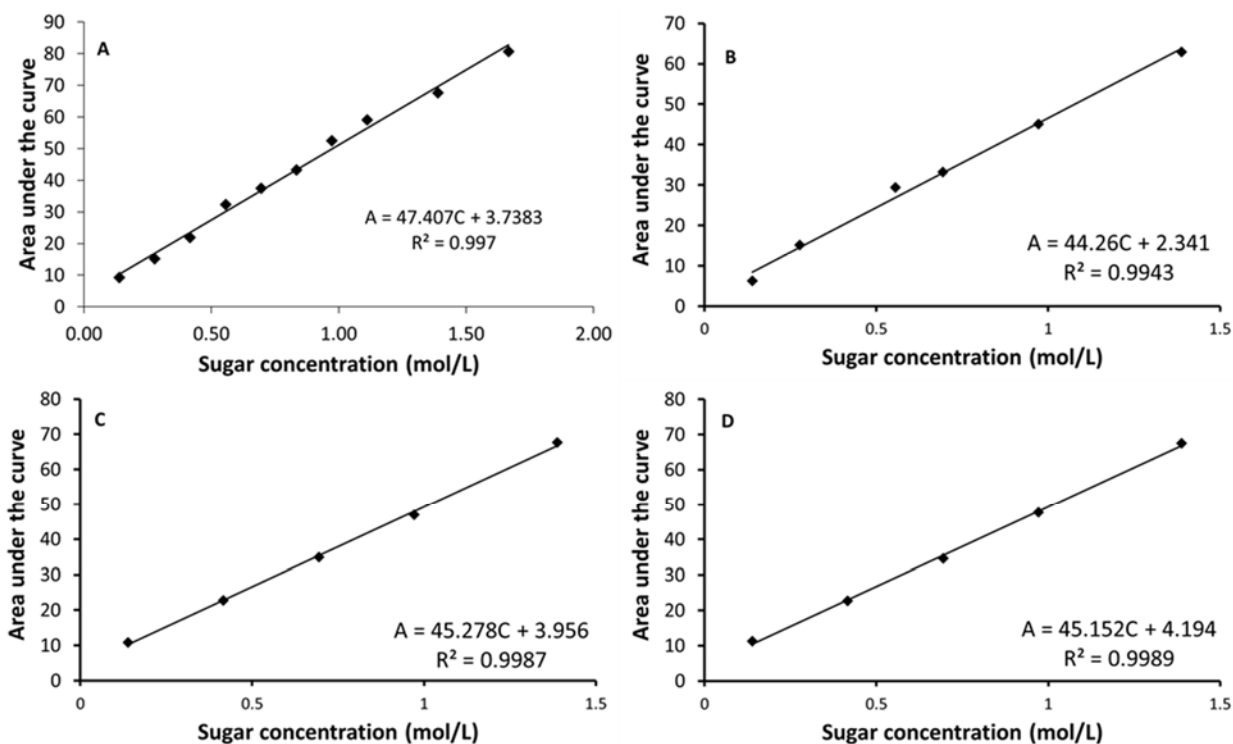


Figure S1. Calibration curves obtained for hexose's using FTIR-ATR by plotting area under the curve between 900 and 1200 cm^{-1} against the concentration of sugars in mol/L. A) D-Glucose, B) L-Glucose, C) D-Mannose, D) D-Galactose. The plotted points represent average value of two measurements.

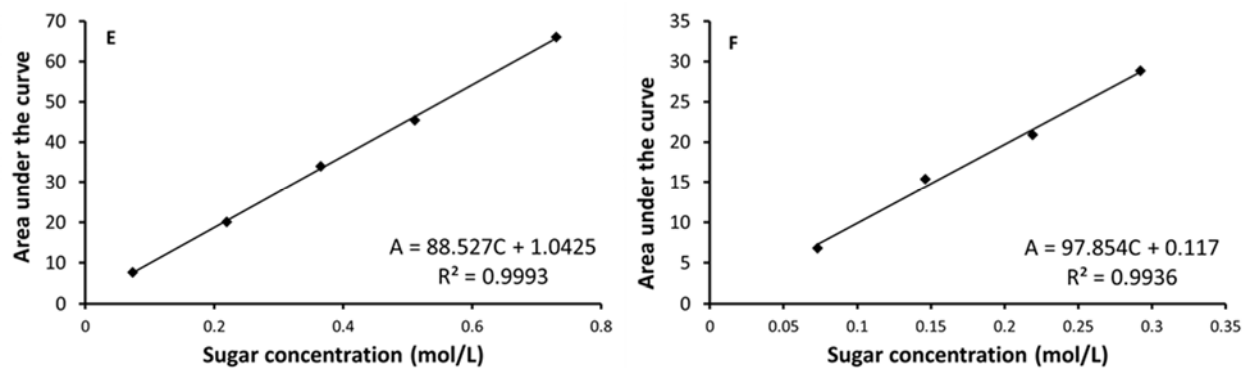


Figure S2. Calibration curves for disaccharides using FTIR-ATR by plotting the area under the curve between 900 and 1200 cm^{-1} against the concentration of disaccharides in mol/L. E) D-Maltose, F) D-cellobiose. The plotted points in each case represent average value of two measurements.

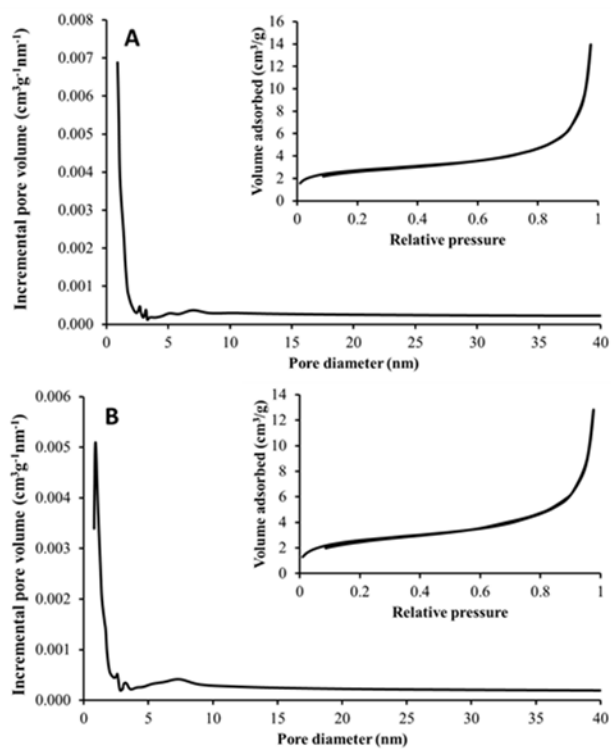


Figure S3. Nitrogen adsorption isotherms and pore size distribution for Stöber particles with A) no surfactant added and B) particles imprinted with 1:1 mixture of CTAB and C8G1.

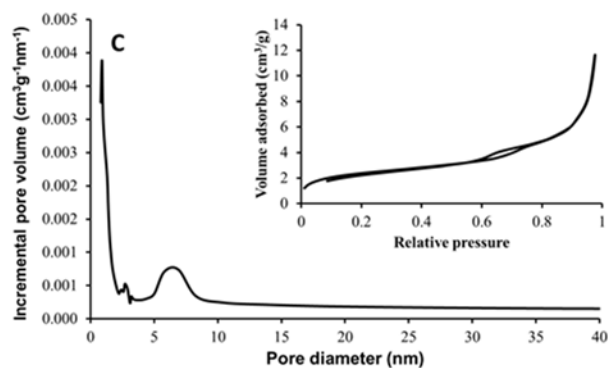


Figure S4. Nitrogen adsorption isotherm and pore size distribution for Stöber particles synthesized by adding 1:1 mixture of CTAB and C12G2.

Table S1. Ratio of target molecule adsorption compared to other saccharides at different initial concentrations of saccharides in solution. The ratios here are indicated for imprinted particles. Each value is determined using adsorbed amounts from two separate saccharide solutions (not from a saccharide mixture).

Target molecule/ Saccharide adsorption ratio	Initial concentration (mol/L)		
		0.138	0.694
D-glucose/L-glucose	5.1	4.3	3.3
D-glucose/D-galactose	1.4	1.2	1.5
D-glucose/D-mannose	1.7	1.5	1.6
Target molecule/ Saccharide adsorption ratio	Initial concentration (mol/L)		
		0.069	0.138
Maltose/Cellobiose	4.8	1.6	1.4