Electronic Supplementary Material (ESI) for Physical Chemistry Chemical Physics.

Electro-catalytic oxidation of hemicelluloses at Au electrode

Yasuhito Sugano[1], Tiina Saloranta[2], Johan Bobacka[1] and Ari Ivaska[1] *

[1]Laboratoly of Analytical Chemistry, Process Chemistry Centre, Åbo Akademi University, Biskopsgatan 8, 20500 Turku, Finland

[2]Laboratoly of Inorganic Chemistry, Process Chemistry Centre, Åbo Akademi University, Biskopsgatan 8, 20500 Turku, Finland

ari.ivaska@abo.fi

Supporting Information

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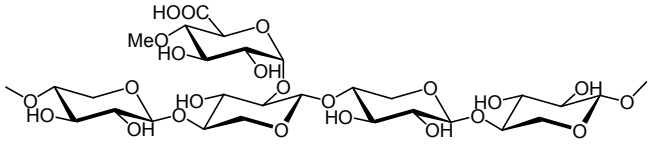
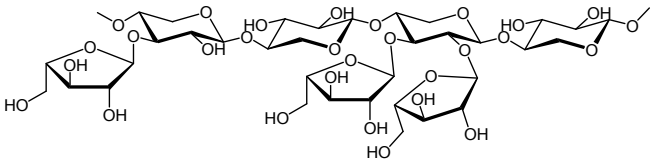
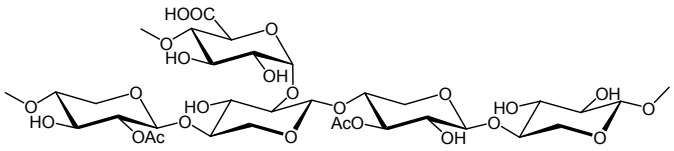
Xylan



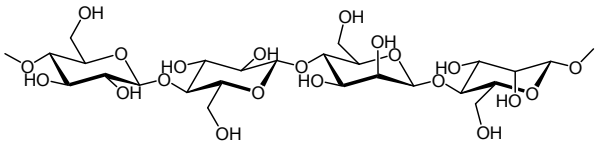
Arabinoxylan



Glucuronoxylan



Glucomannan



Xyloglucan

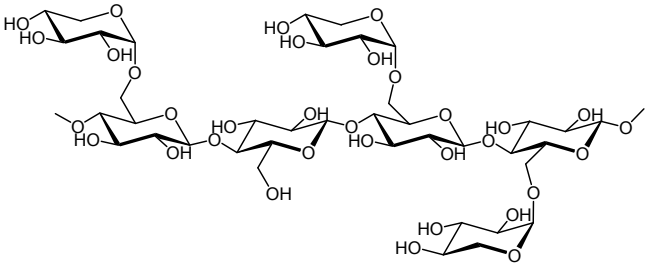


Figure S1. Chemical structure of the studied hemicelluloses

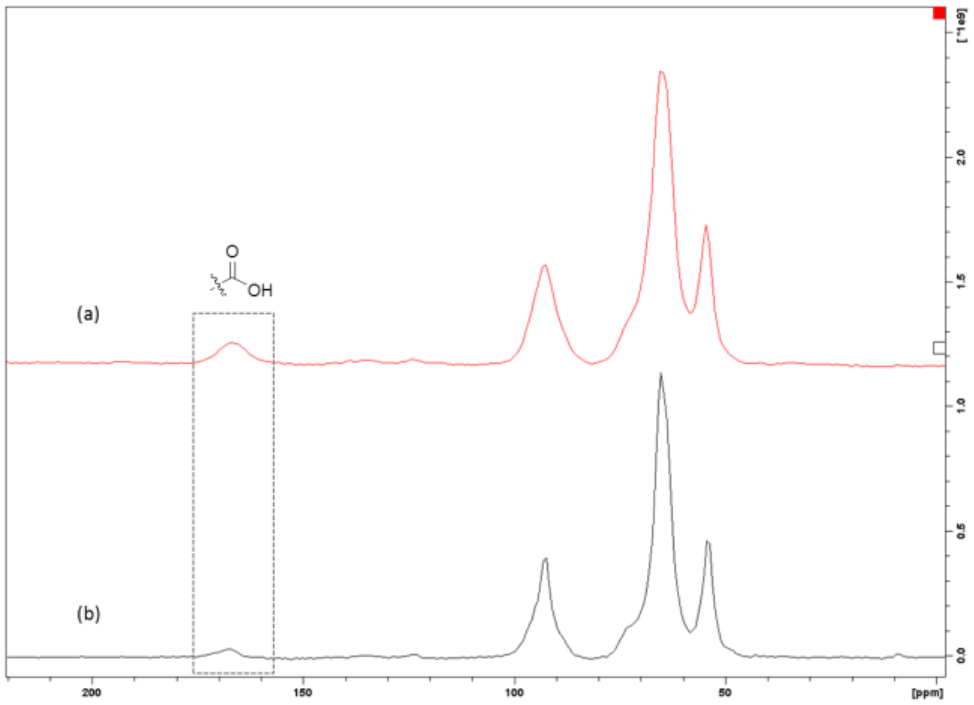


Figure S2. CP MAS ^{13}C solid state NMR spectra of xylan samples: (a) water soluble fraction after the electrolysis and (b) xylan before the electrolysis.

Table S1. Concentration of the metal elements in the water insoluble electrolysis product by ICP-MS

Analyte	Mass	Concentration [µg/g]	RSD [%]
Au	197	1003	1.8

Scheme S1. Sample preparation process for structural analysis