

Title (en)
MODIFICATION OF XYLAN

Title (de)
MODIFIKATION VON XYLAN

Title (fr)
MODIFICATION DE XYLANE

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Abstract (en)
[origin: WO2011154807A1] The invention provides a method of modifying soluble xylan which contains glucuronic acid and/or arabinose side chains so that it can be adsorbed onto other substrates. The method includes the steps of enzymatically modifying the xylan by selectively removing glucuronic acid and/or arabinose side chains from the xylan with a -D-glucuronidase and/or a -L-arabinofuranosidase, and allowing the modified xylan to adsorb onto the substrate. The substrate may be a cellulosic substrate like pulp or paper or a non-cellulosic substrate. The enzymes are able to remove a sufficient number of the xylan side chains so as to decrease water solubility of the xylan, induce xylan precipitation and allow adsorption of the xylan onto other substrates. A pulping process which incorporates modification of xylan and adsorption onto cellulosic material is also provided, as are products which contain the modified xylan.

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