

Advanced Gamma-Valerolactone (GVL) Fractionation Concepts

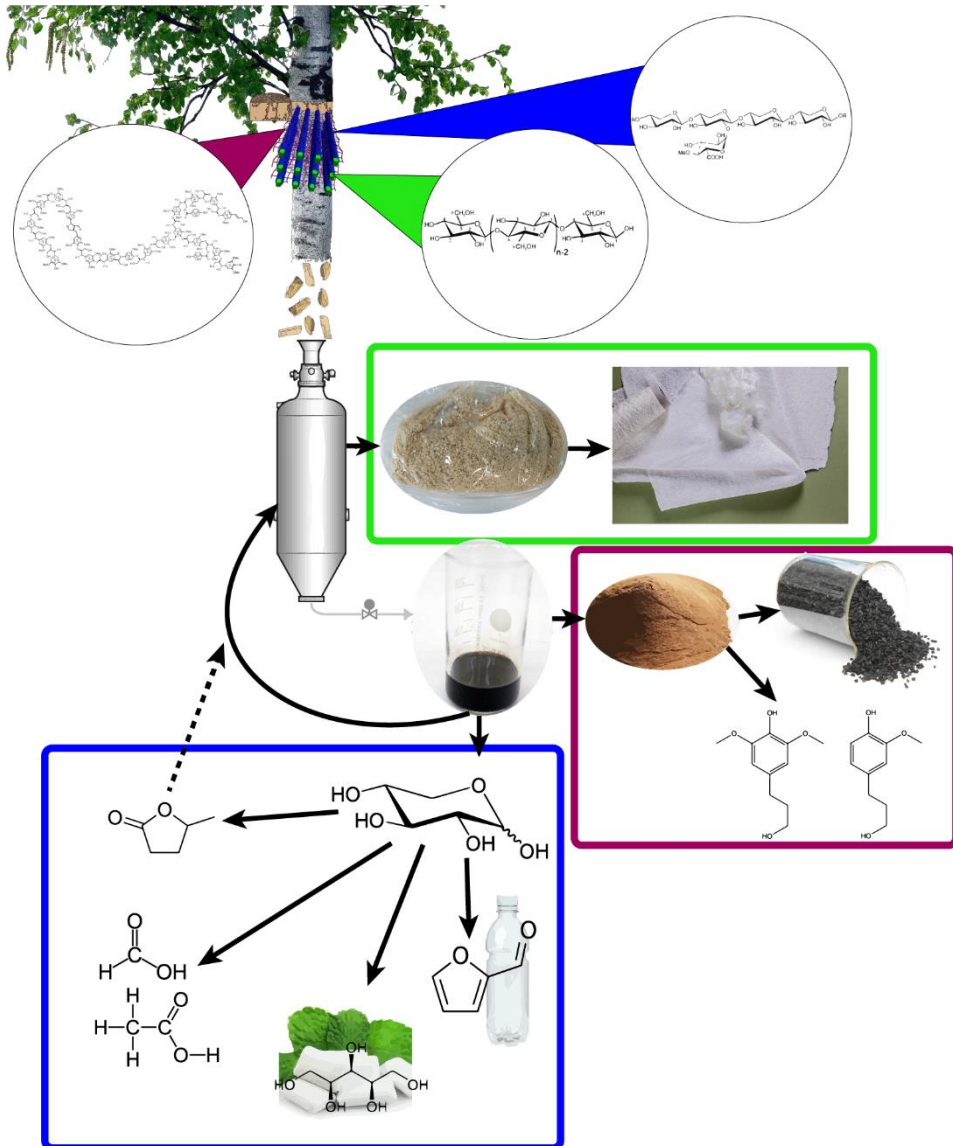
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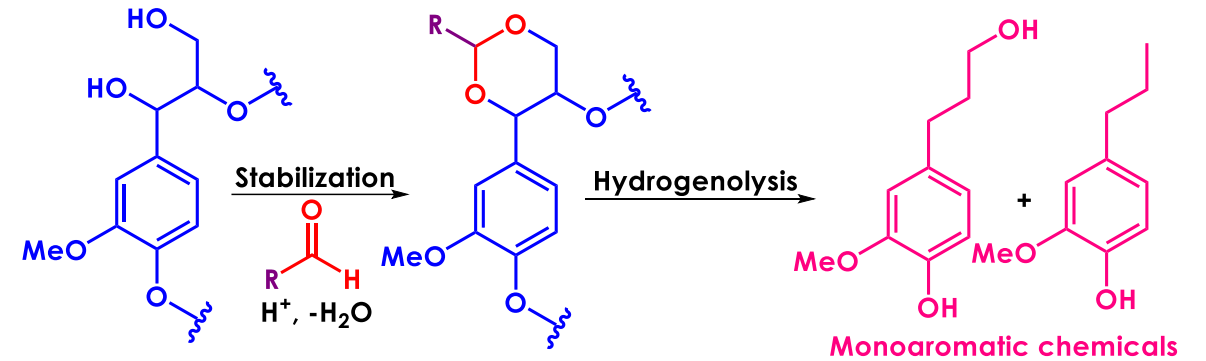


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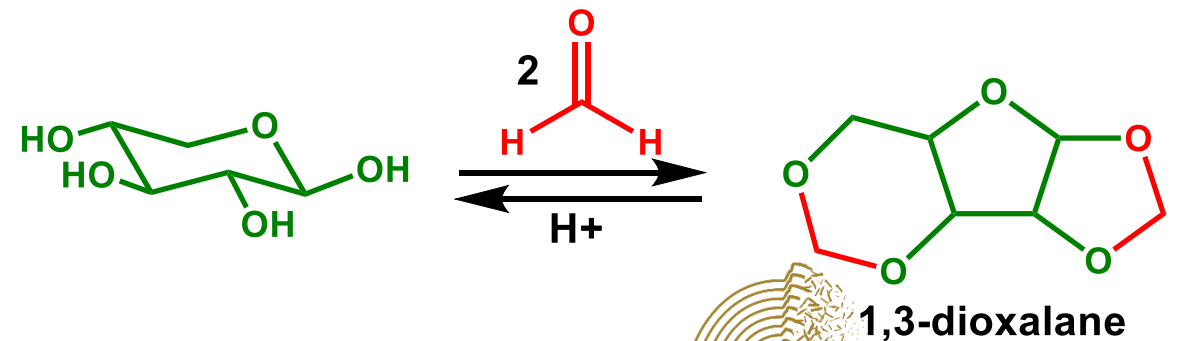


Addition of **aldehydes** stabilizes **lignin** and preserves the β -O-4 structure

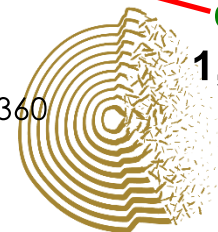


Science (2016), 354,

Addition of **aldehydes** stabilizes **carbohydrates** against dehydration reaction



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