

Supporting information

Advanced masking agent for leather tanning from stepwise degradation and oxidation of cellulose

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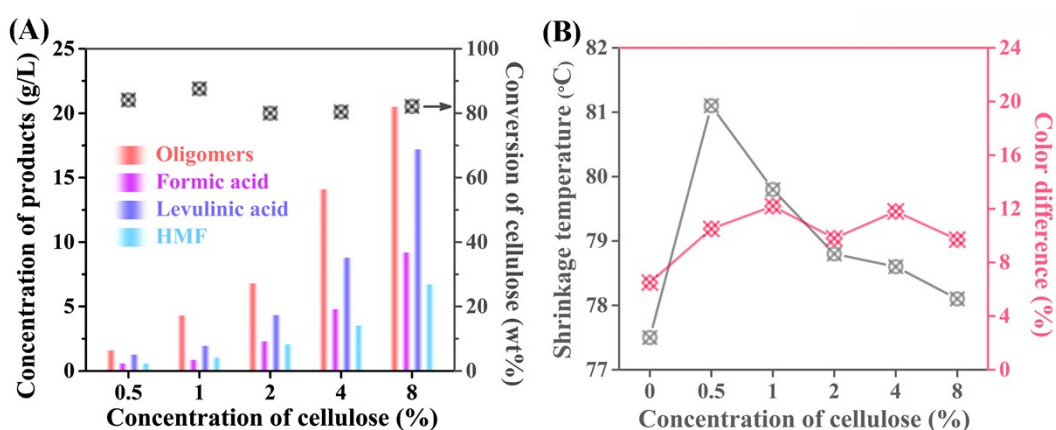


Figure S1. (A) Effect of cellulose concentration on the conversion of cellulose and yield of products catalyzed by AlCl₃ at 200 °C for 20 min; (B) Shrinkage temperature and color difference of the leather tanned by the H₂O fraction after reaction.

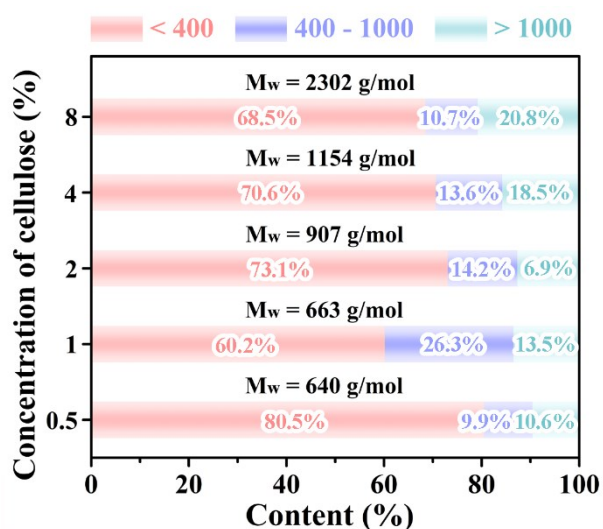


Figure S2. Molecular weight distributions of the oligosaccharides with different cellulose concentrations.

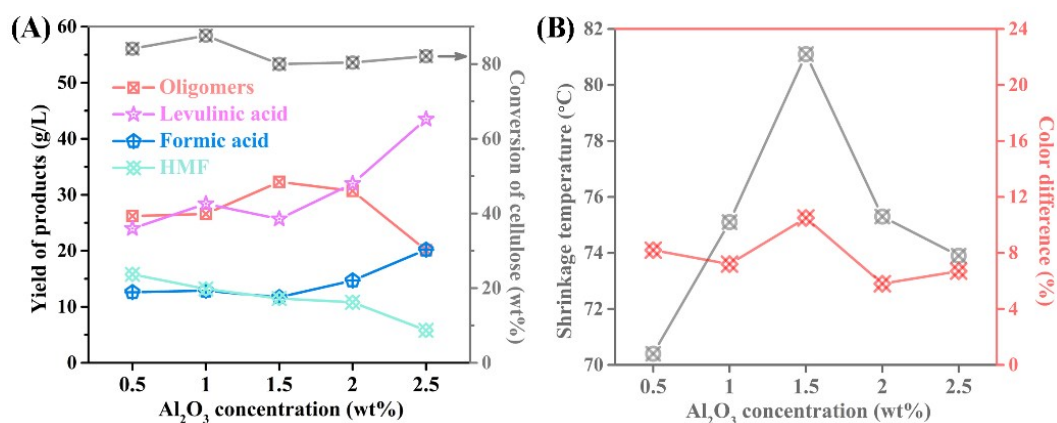


Figure S3. (A) Effect of catalyst concentration on the conversion of cellulose and yield of products at 200 °C for 20 min; (B) Shrinkage temperature and color difference of the leather tanned by the H_2O fraction after reaction.

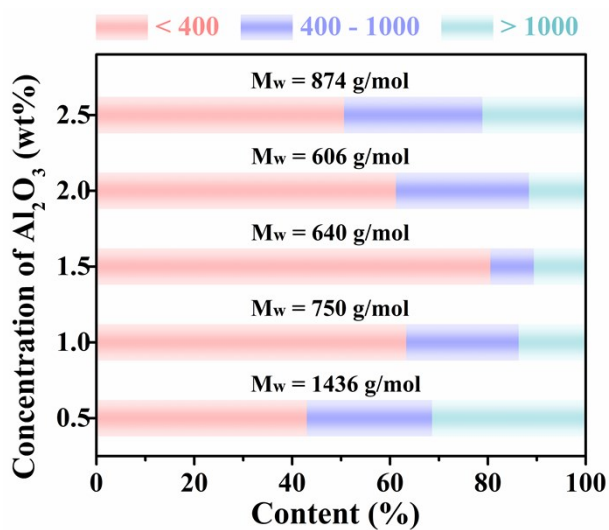


Figure S4. Molecular weight distributions of the oligosaccharides with different catalyst concentrations.

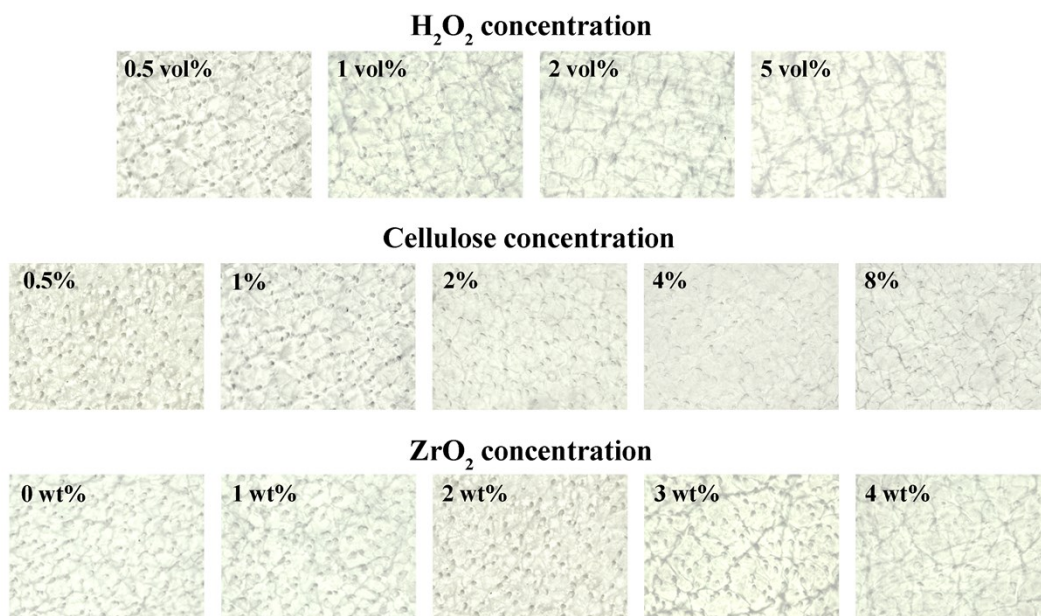


Figure S5. Stereo microscope images of grain surface of the tanned leather.