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## Supplementary material

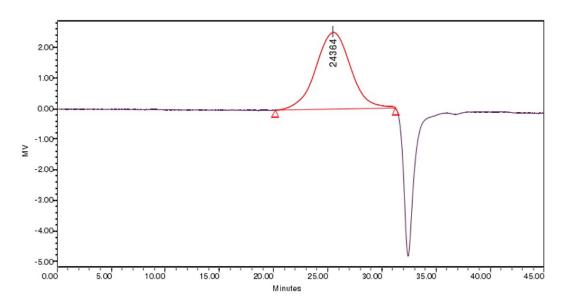


Fig. S1. HPGPC of GLP. The X axis is retention time, Y axis is RI response.

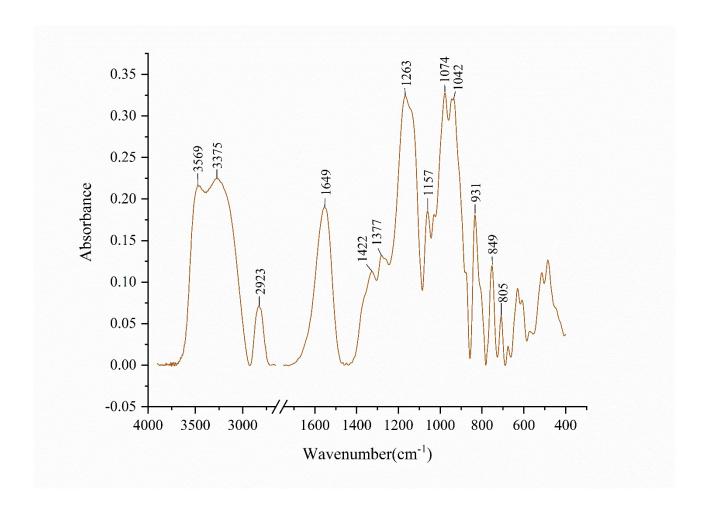
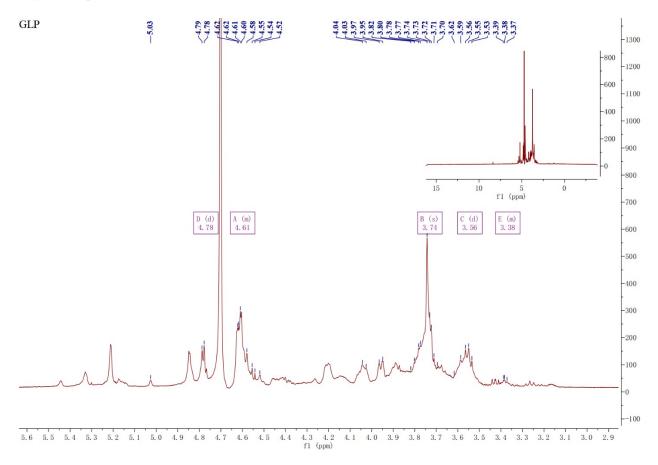
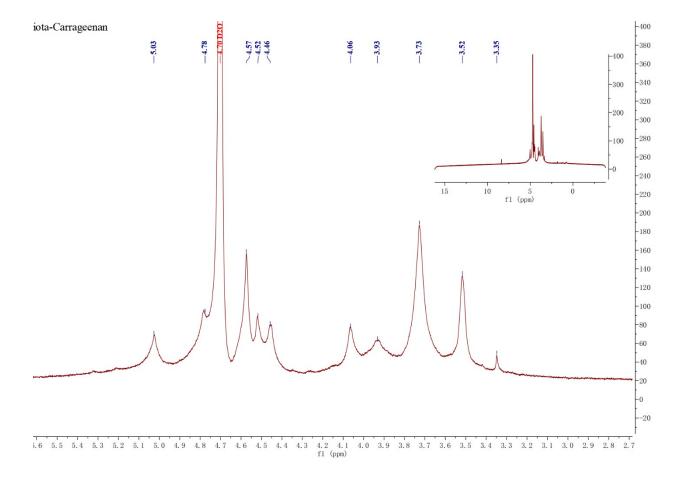


Fig. S2 IR spectrum of GLP.





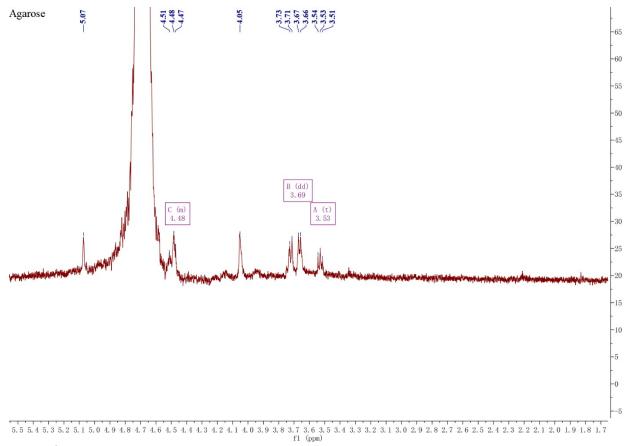


Fig. S3  $^1$ H spectrum of GLP, t-carrageenan and agarose. The anhydrogalactose content of GLP, t-carrageenan and agarose were  $15.3 \pm 0.4$ ,  $22.3 \pm 0.2$  and  $41 \pm 1\%$ , respectively.