

**Supplementary materials**

**Efficient conversion of glucosamine to levulinic acid over sulfamic acid-  
catalyzed hydrothermal reaction**

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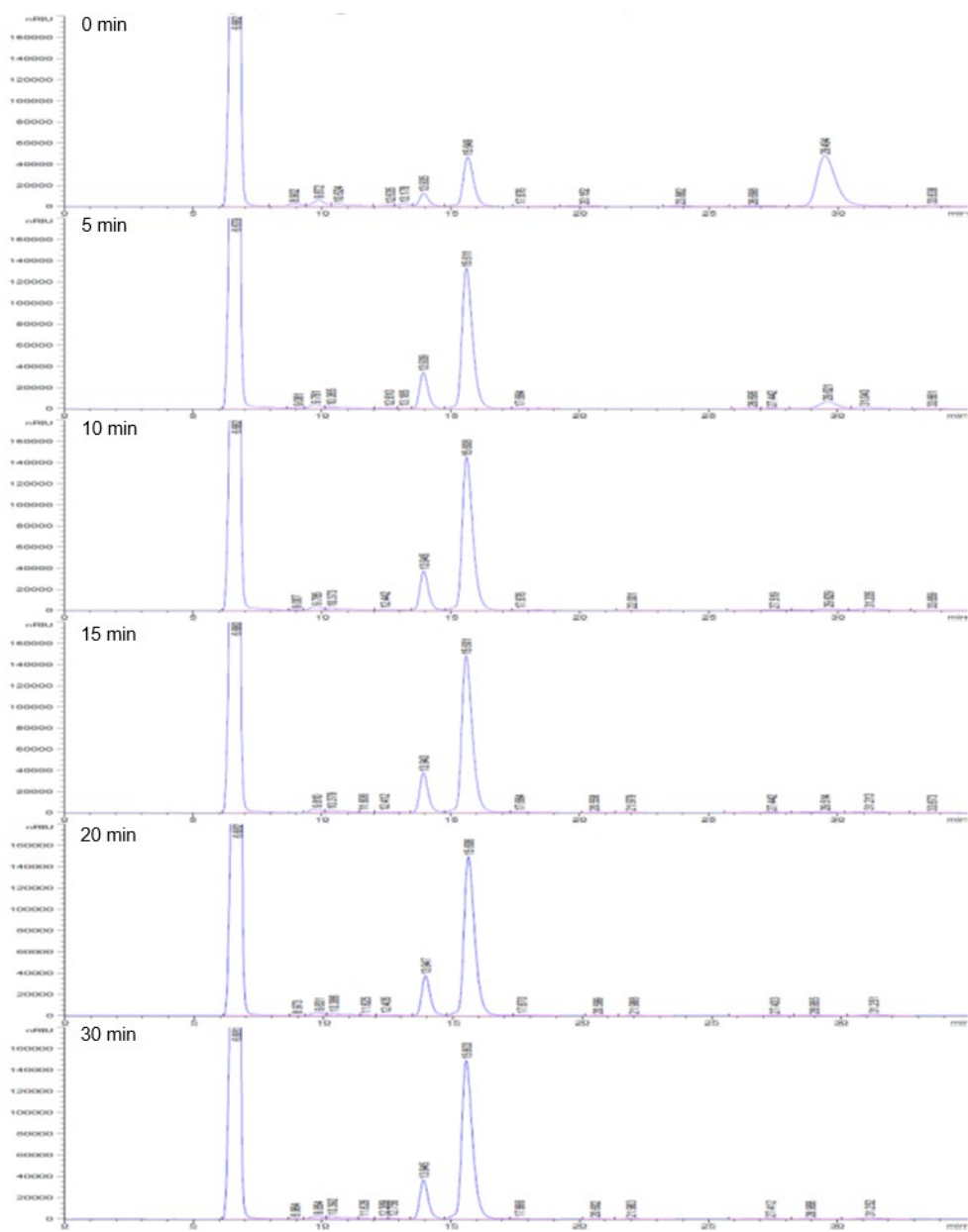


Fig. 1S. HPLC chromatogram of sulfamic acid-catalyzed hydrothermal conversion of glucosamine.

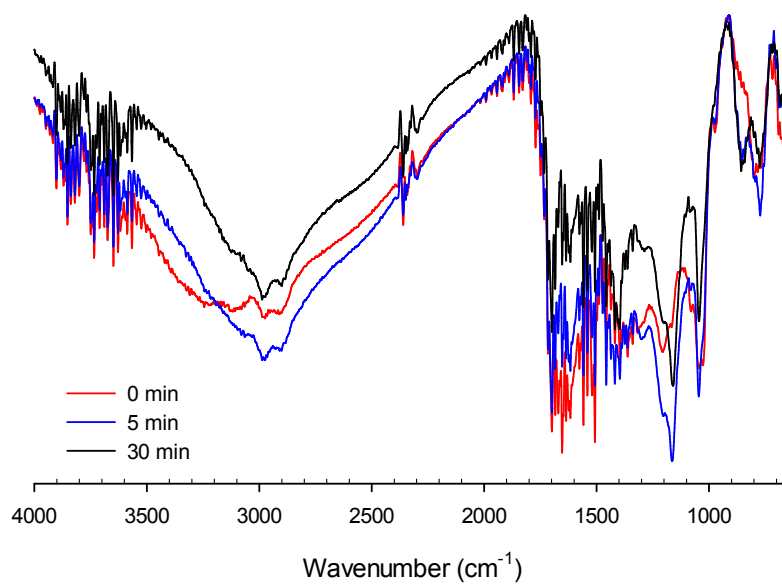


Fig. 2S. FT-IR spectra of residues during conversion reaction of glucosamine with sulfamic acid. The data of 30 min is the same as Fig. 6.