

## Supporting Information

### Construction of porous chitosan microspheres with high specific surface area by using agarose as pore-forming agent and further functionalized application in bioseparation

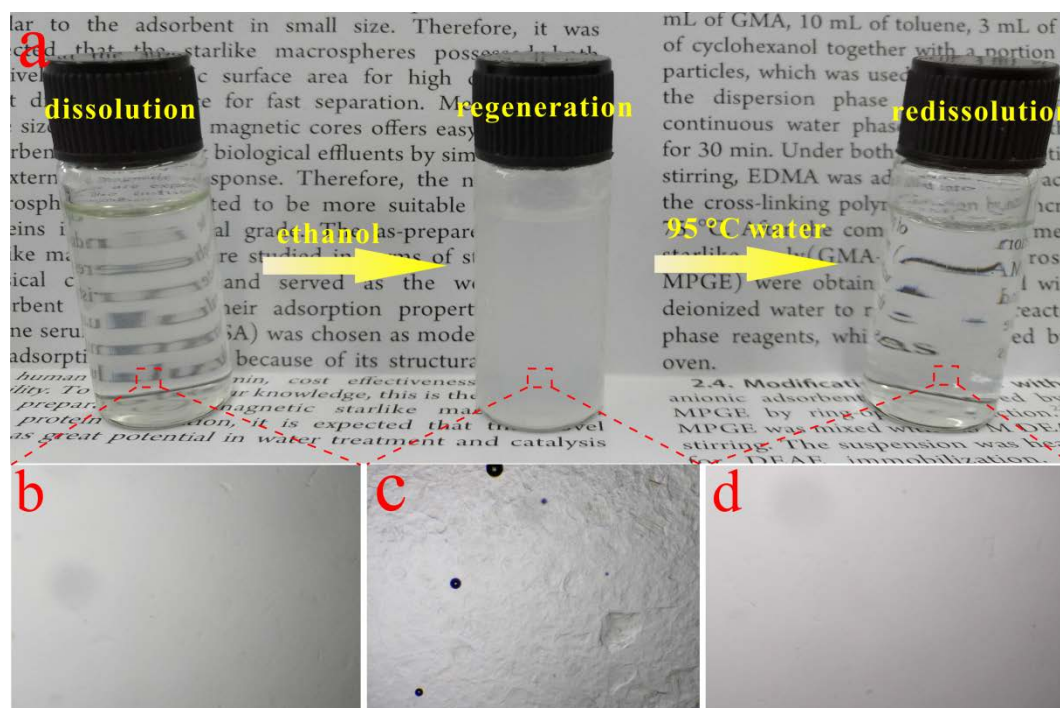
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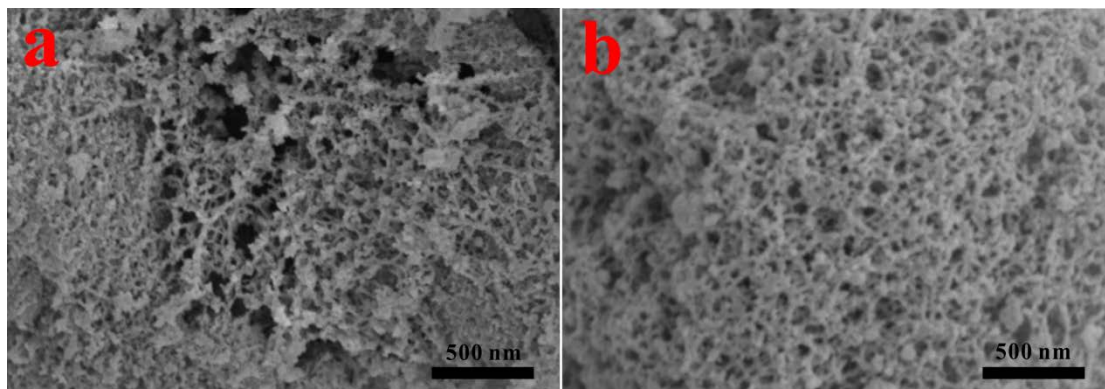
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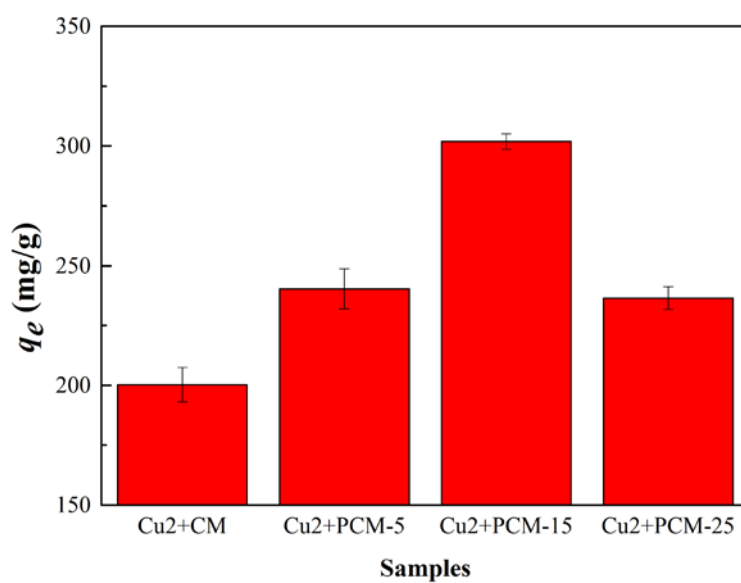


**Figure S1.** Photographs of the dissolution-regeneration-redissolution process of agarose (a), in which left solution is 4wt% agarose solution in LiOH/urea system,

middle suspension is regenerated agarose solution, and right solution is 4wt% agarose solution in hot water; and the corresponding optical microscopy images (b, c, d).



**Figure S2.** SEM images of the inter structure of PCM-15 (a) and Cu<sup>2+</sup>PCM-15 (b).



**Figure S3.** Adsorption capacity of BHB on adsorbents (conditions: 10 mL BHB concentration: 1000 mg/L, incubation time: 60 min, adsorbents dosage: 10 mg, pH: 6.5).