

# Supporting Information: Experimental and Theoretical Studies on the Adsorption and Desorption Mechanisms of Chromate Ions on Cross-Linked Chitosan

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## 1. Synthesis of EP and GA

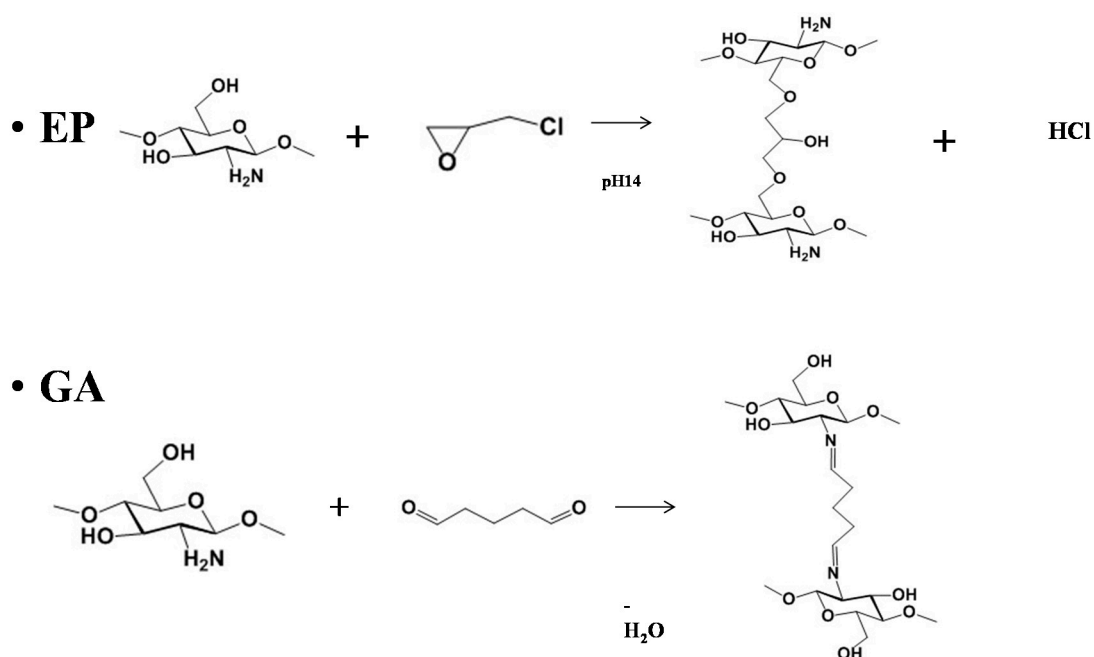


Fig.S1 Synthesis of EP and GA

## 2. Secondary electron images by SEM of chitosan, EP, and GA surface structures

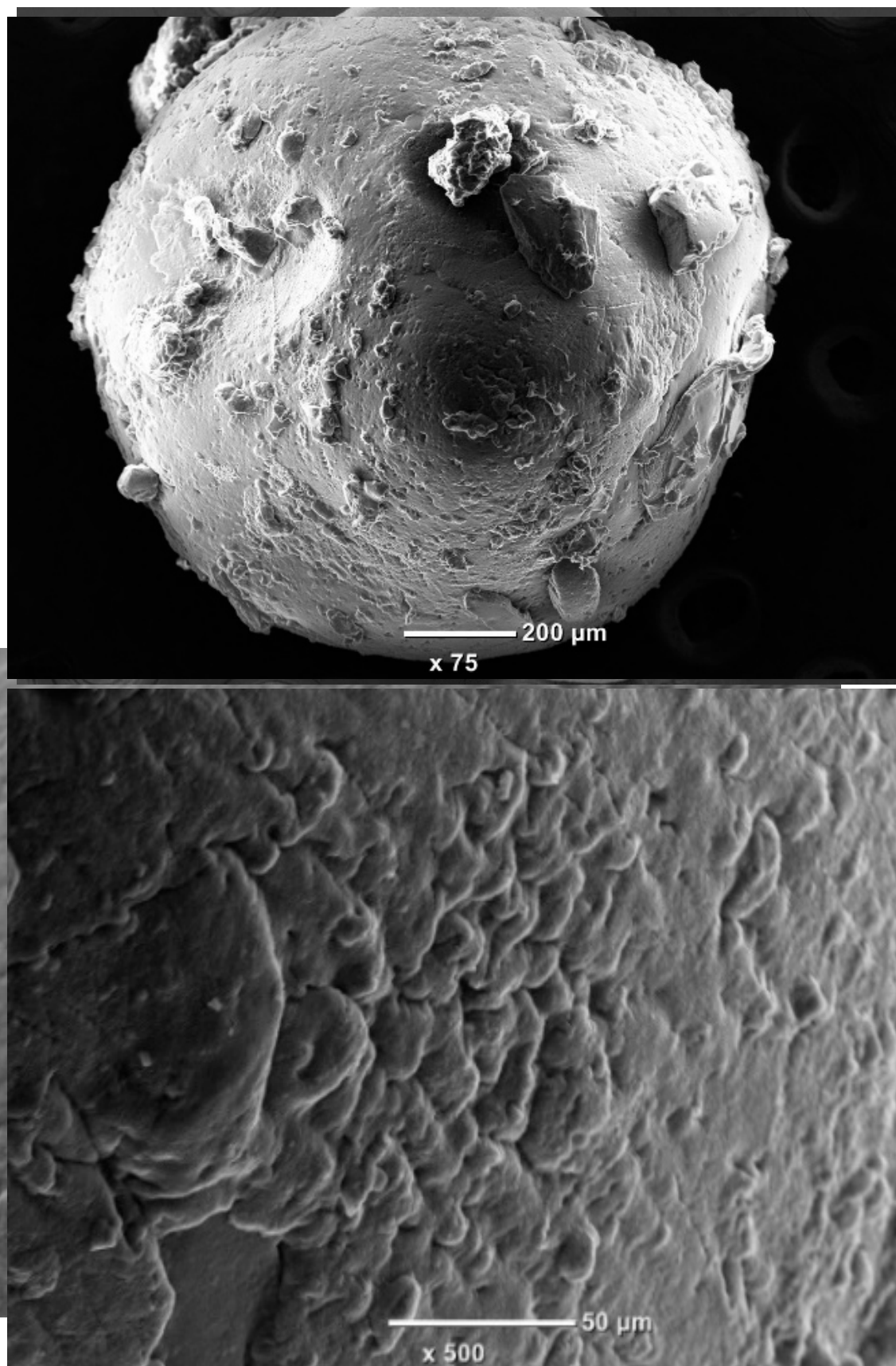


Fig.S2 Secondary electron image by SEM of Chitosan surface structure before adsorption.

Fig.S3 Secondary electron image by SEM of EP surface structure before adsorption.

Fig.S4 Secondary electron image by SEM of GA surface structure before adsorption.

### 3. molecular structures of chitosan, EP, and GA

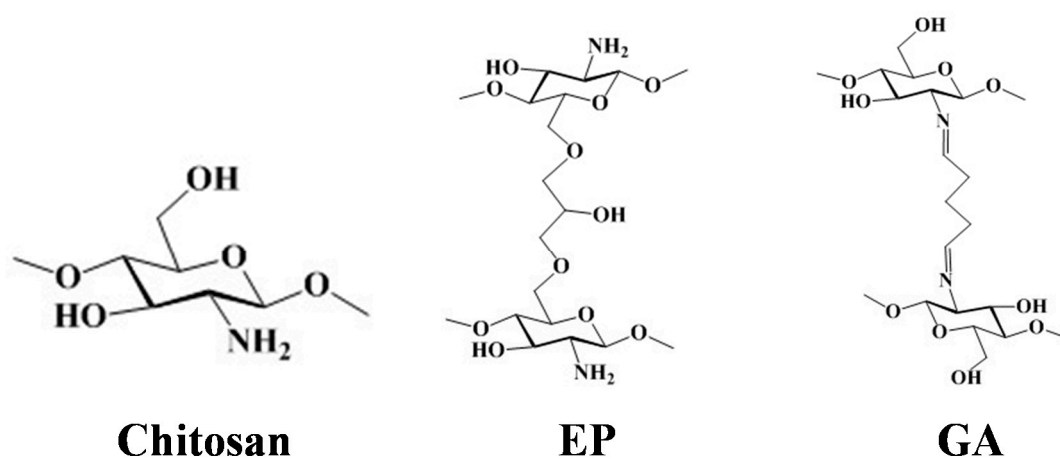


Fig.S5 Molecular structures of chitosan, EP, and GA