## **Supplementary Materials**

## The combination of coagulation and adsorption for controlling ultrafiltration membrane fouling in water treatment

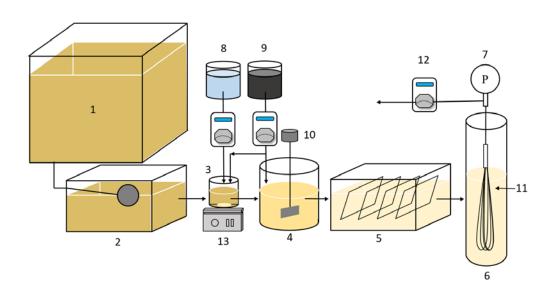
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Table S1. Main properties of PAC

Average particle size (μm)	BET surface area (m2/g)	Average pore size (nm)	Zeta potential (mV)
$41 \pm 0.7$	$812 \pm 13$	$3.1 \pm 0.2$	$-22.5 \pm 0.3$



**Figure S1.** Schematic diagram of ultrafiltration sys. 1 - raw water tank, 2 - constant-level water tank, 3 — rapid mixing unit, 4 - slow mixing unit, 5 — sedimentation tank, 6 — ultrafiltration tank, 7 - pressure transmitters, 8 — coagulant tank, 9 —adsorbent tank, 10 — mechanical stirrer, 11 — ultrafiltration membrane, 12 — peristaltic pump 13 — magnetic stirrer

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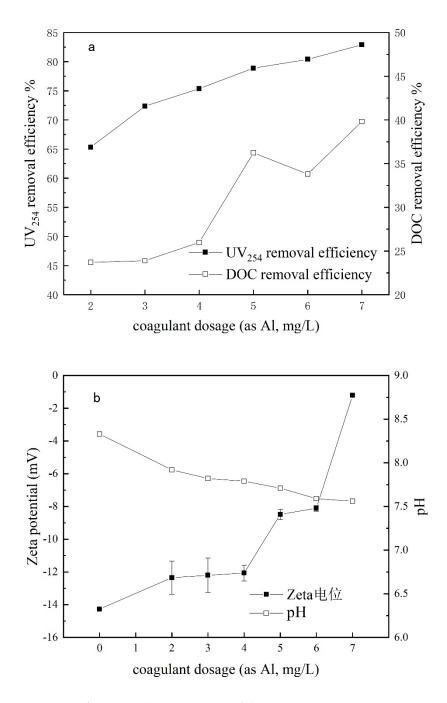


Figure S2. The optimization of the coagulation process

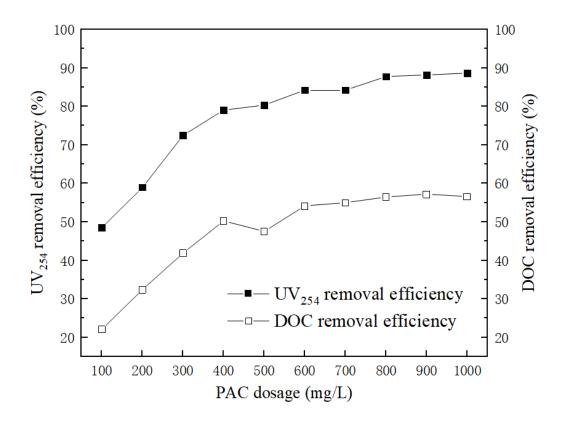


Figure S3. The optimization of the adsorption process.