

Supplementary Material

High-quality conjugated polymers achieving ultra-trace detection of $\text{Cr}_2\text{O}_7^{2-}$ in agricultural products

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Table S1 Polymerization of monomers Fmoc-Ala-OH and Fmoc-Thr-OH in different solvents.

Polymerization Monomers	THF	DMF	DCM	BFEE
Fmoc-Ala-OH	×	×	×	√
Fmoc-Thr-OH	×	×	×	√

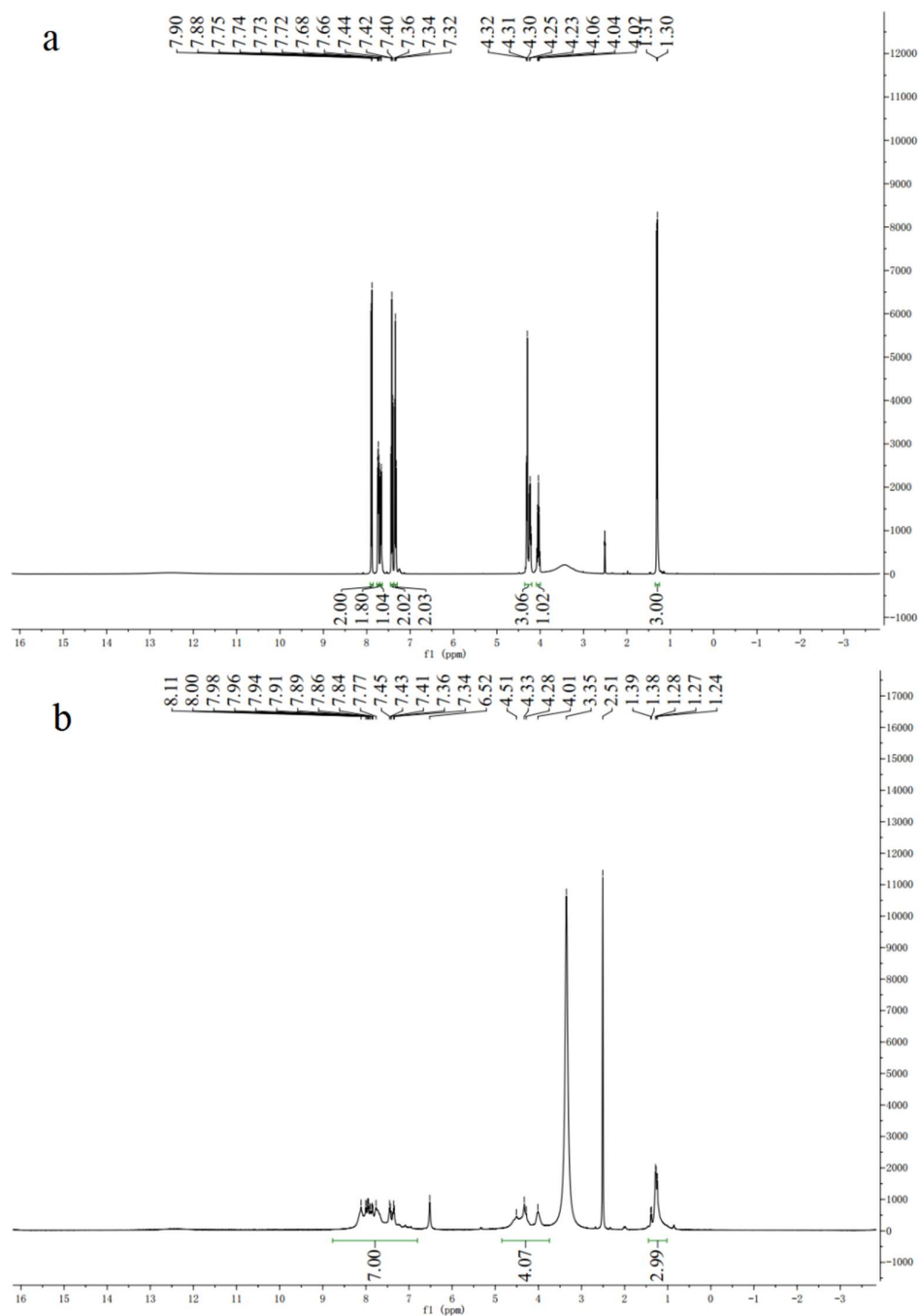


Figure S1. ^1H NMR spectra of Fmoc-Ala-OH (a) and **P**(Fmoc-Ala-OH) (b).

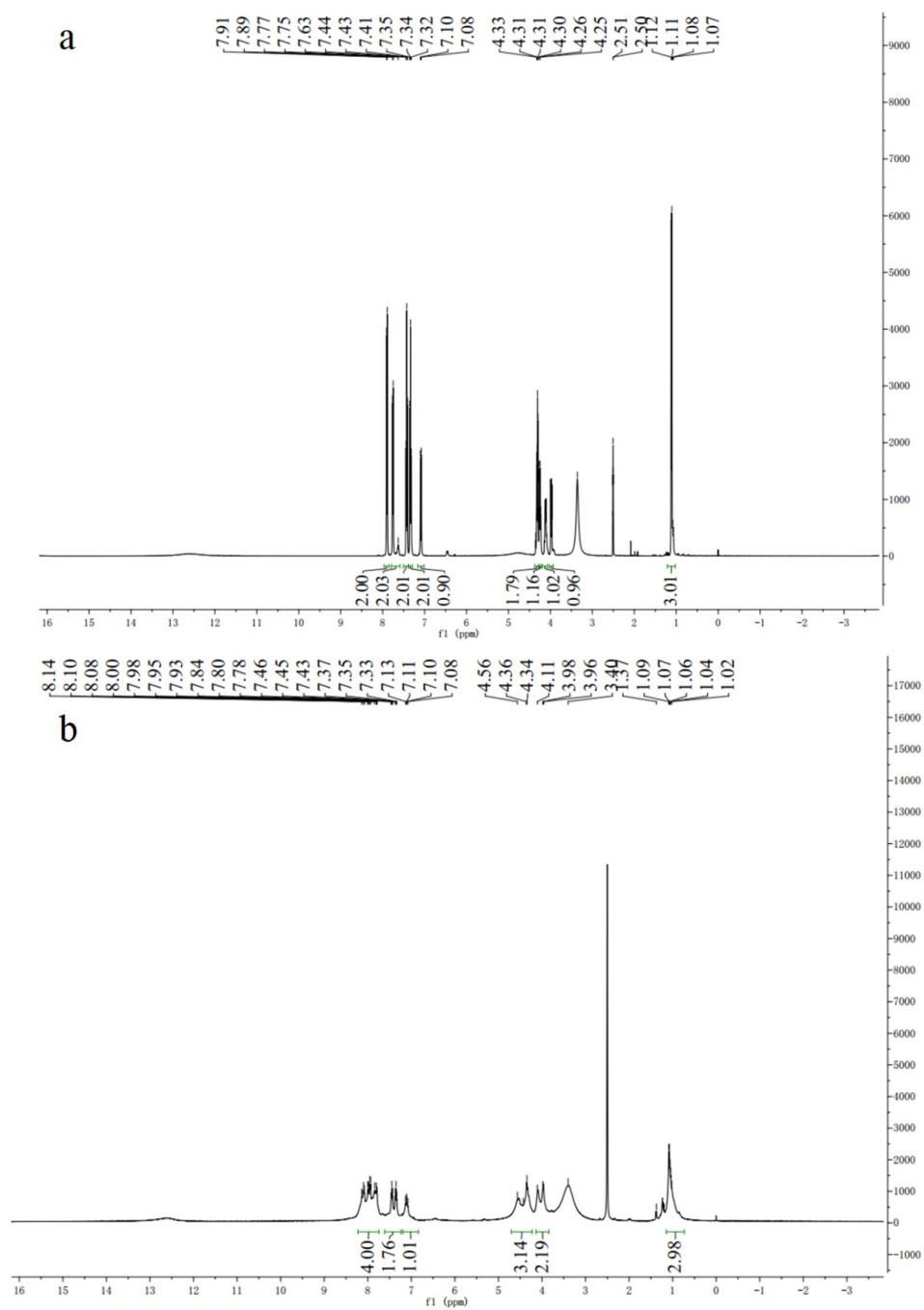


Figure S2. ^1H NMR spectra of Fmoc-Thr-OH (a) and **P(Fmoc-Thr-OH)** (b).

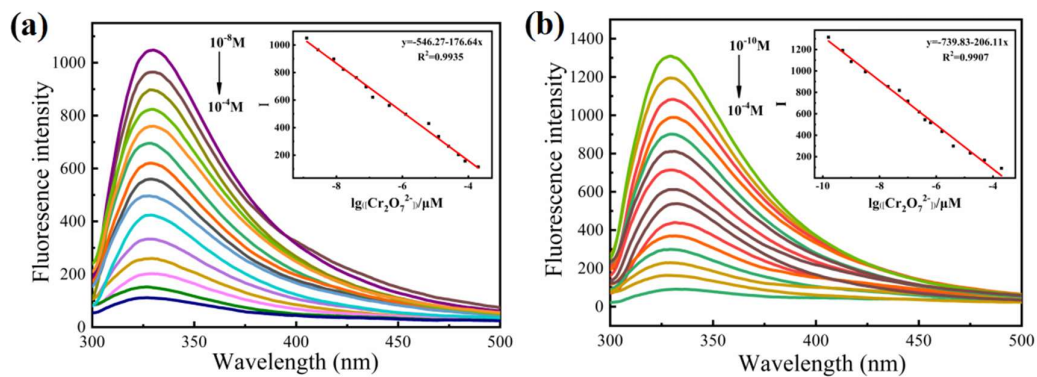


Figure S3. Fluorescence spectra of Fmoc-Ala-OH (a) and Fmoc-Thr-OH (b) toward $\text{Cr}_2\text{O}_7^{2-}$ with different concentrations in DMSO/EtOH solution. Inset: linear plots of their fluorescence intensity against the $\text{Cr}_2\text{O}_7^{2-}$ concentration.