Electronic Supplementary Material (ESI) for Analytical Methods.

Electronic Supplementary Material

Preparation of monolithic fibers based on dual functional monomers for solid phase microextraction of sudan dyes in tomato sauce and egg yolk samples

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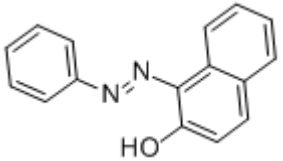
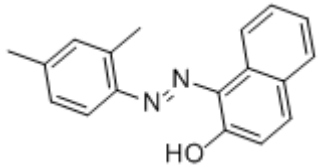
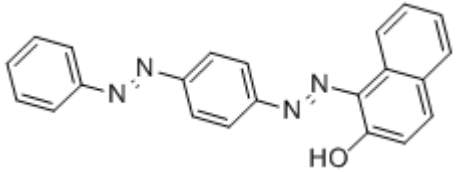
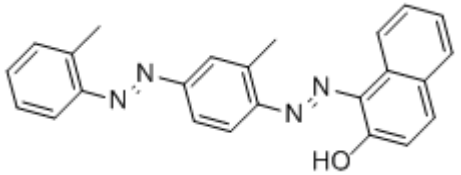
Table S1. The chemical properties of sudan dyes

Compounds	Formula	Molecular mass	lg*Kow*	CAS	Chemical structures
Sudan I	$C_{16}H_{12}N_2O$	248.28	4.88	842-07-9	
Sudan II	$C_{18}H_{16}N_2O$	276.33	5.45	3118-97-6	
Sudan III	$C_{22}H_{16}N_4O$	352.39	6.01	85-86-9	
Sudan IV	$C_{24}H_{20}N_4O$	380.44	6.70	85-83-6	

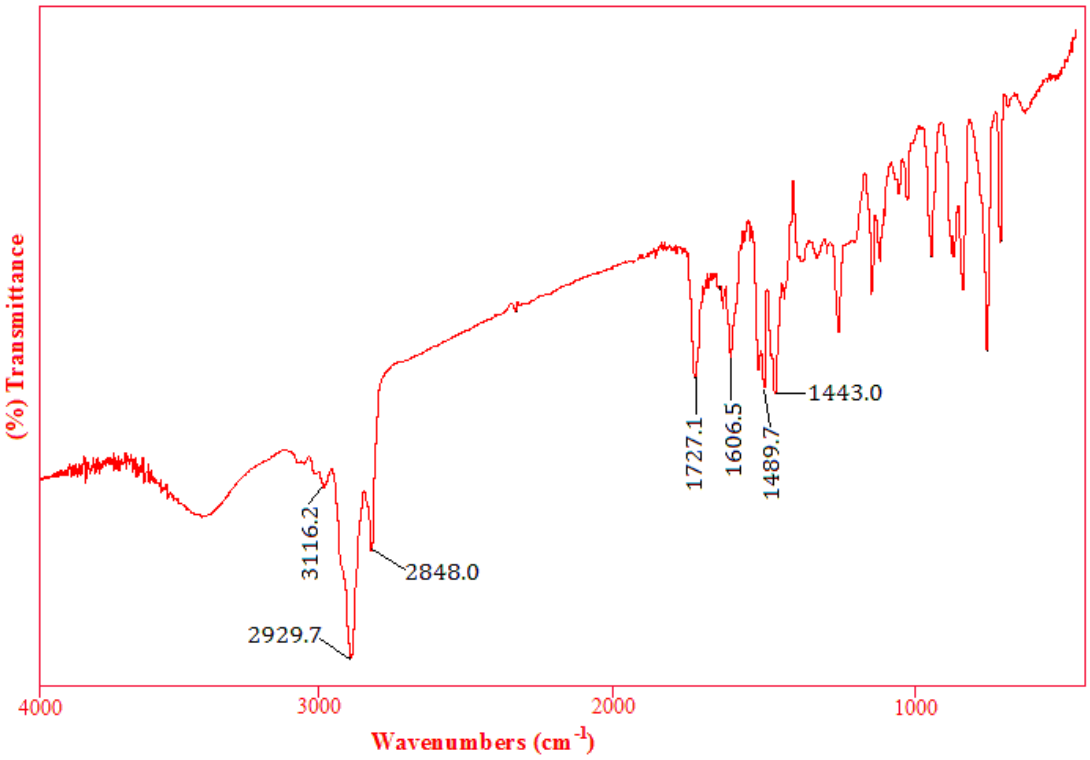


Fig.S1. The FT-IR spectrum of poly (OM/VI-DB) monolith

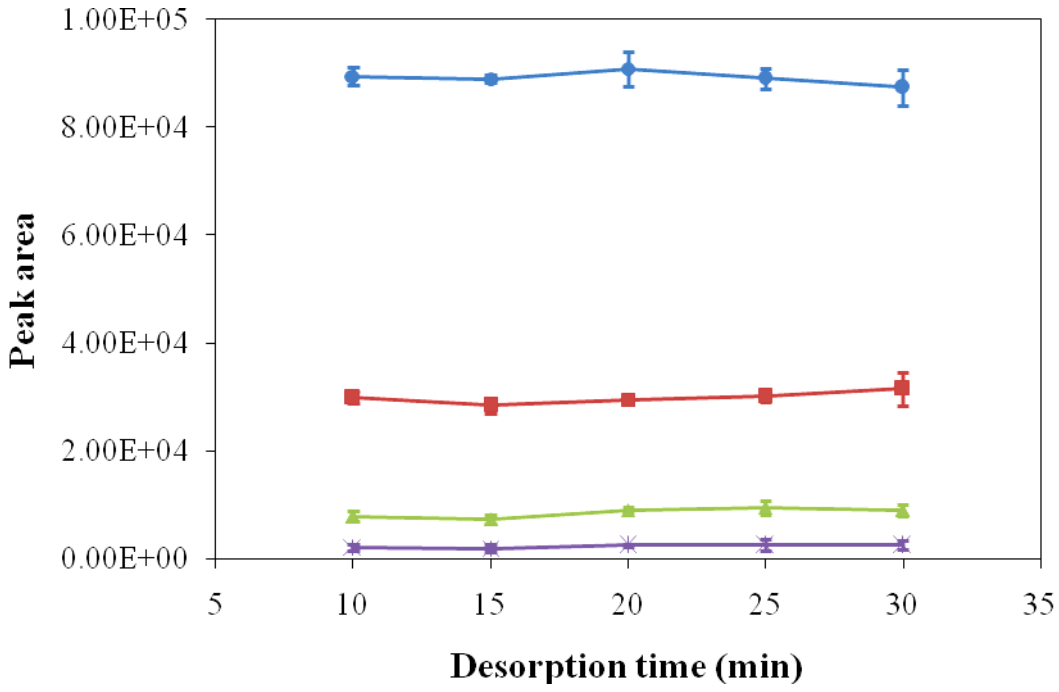


Fig.S2 The effect of desorption time on extraction efficiency

Conditions: ACN was used as desorption solvent; extraction time was 0.5 h; no salt was added in the sample and the pH values of sample matrix were not adjusted. The spiked concentration of each analyte was 100 μg/L.

Symbols: ■ Sudan I; ■ sudan II; ■ sudan III; ■ sudan IV