

SUPPLEMENTARY INFORMATION

Core-shell molecularly imprinted polymers on magnetic yeast for the removal of sulfamethoxazole from water

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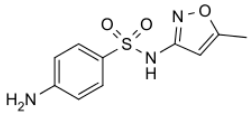
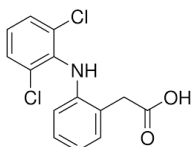
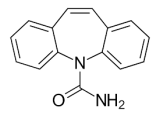
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Table S1. Physico-chemical properties of the pharmaceuticals used in this study (Source: Drugbank).

Pharmaceutical (formula)	Structure	Mw (g mol ⁻¹)	Sw (mg L ⁻¹)	pKa	Log K _{ow}	PSA (Å ²)	HBAC
Sulfamethoxazole (C ₁₀ H ₁₁ N ₃ O ₃ S)		253.28	0.459	6.16 (strongest acidic) 1.97 (strongest basic)	0.79	98.22	4
Diclofenac (C ₁₄ H ₁₁ Cl ₂ NO ₂)		294.15	0.00447	4 (strongest acidic) -2.1 (strongest basic)	4.98	49.33	3
Carbamazepine (C ₁₅ H ₁₂ N ₂ O)		236.27	0.11	15.96 (strongest acidic) -3.8 (strongest basic)	2.77	46.33	1

PSA= Polar Surface Area; HBAC = Hydrogen Bound Acceptor Count; Sw = water solubility (25°C)

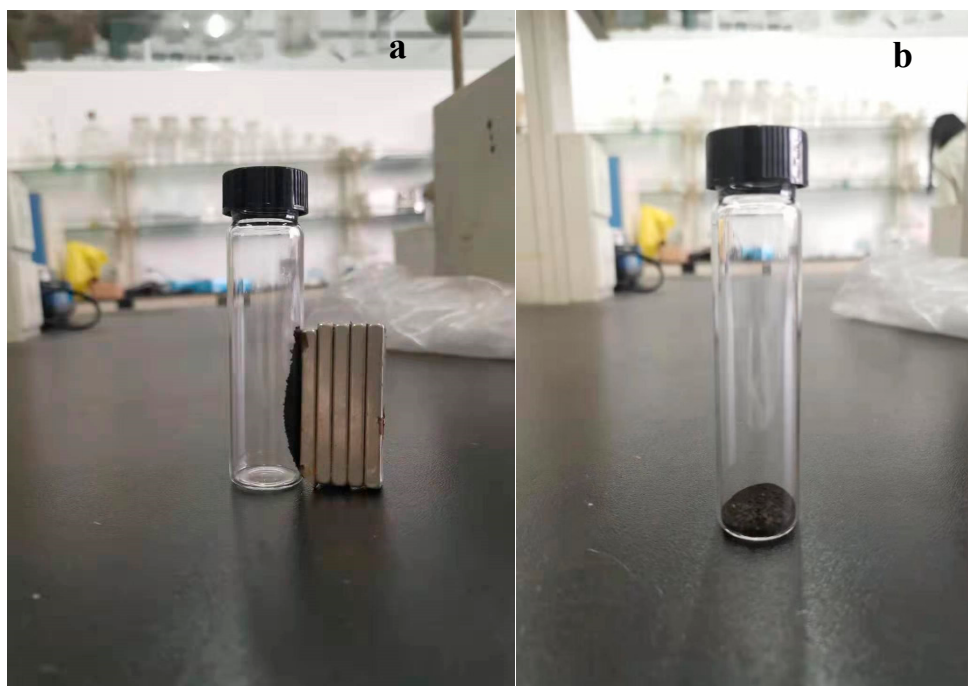


Fig. S1: MY@MIPs in the presence (a) and absence (b) of an external magnetic field.