Evaluation of a Porous Imine-Based Covalent Organic Framework for Solid-Phase Extraction of Nitroimidazoles

Zhikai Hong[a], Yingjiao Dong[a], Ruijie Wang[a] and Guanhua Wang*[a]

College of Veterinary Medicine, South China Agricultural University, Guangzhou 510642, Guangdong, PR China. E-mail: ghwang@scau.edu.cn; Tel: +86-02085280234

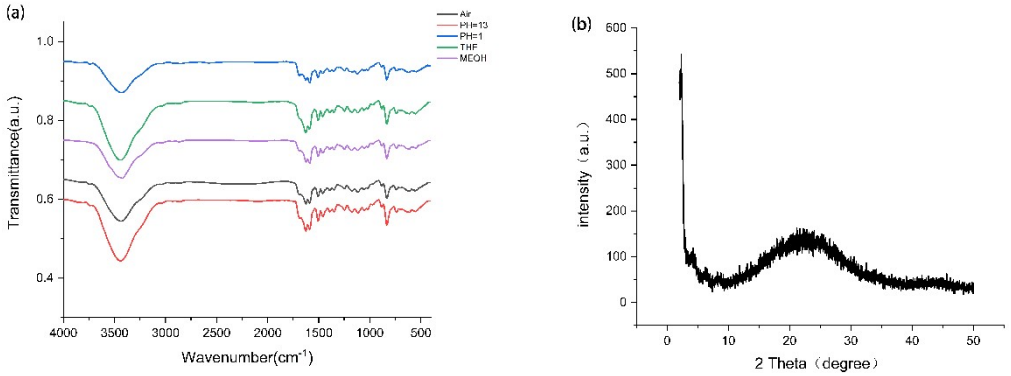

Fig.S1 (a) The FTIR spectrum of BP-COF in different conditions; (b) The PXRD pattern of BP-COF

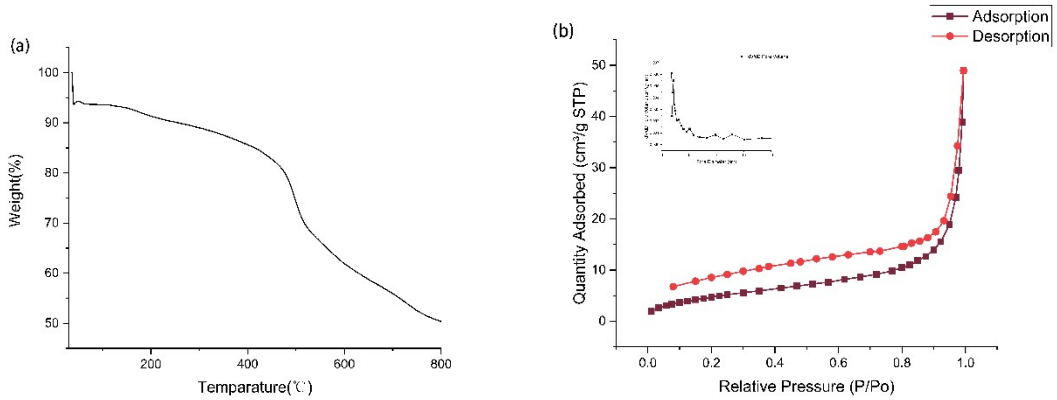

Fig.S2 (a)The TGA analysis of BP-COF; (b) N2 adsorption desorption isotherms of BP-COF.

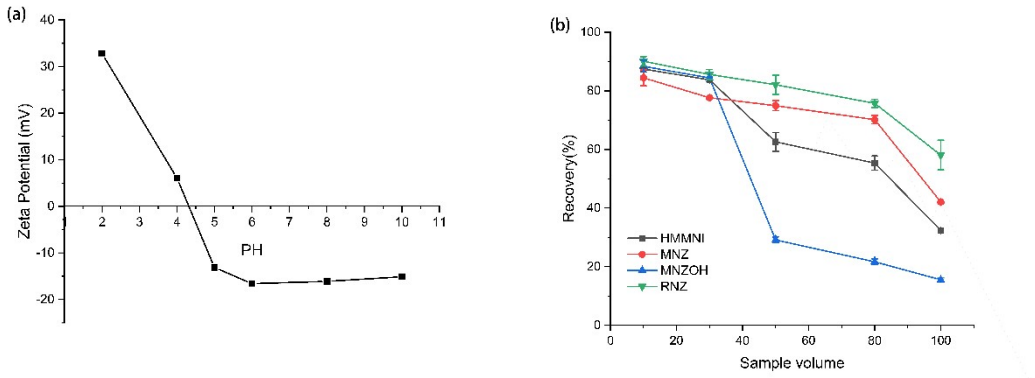

Fig.S3(a) Zeta potential of BP-COF; (b) Effect of the sample volume on the recoveries of NDZs (conditions: amount of sorbent, 60 mg; washing solvent, 1 mL water; elution solvent, 2 mL MeOH with 5% NH_3; sample pH,4; Spiked level, 10 ng ml^{-1})

Table S1 Monitored LC-MS/MS transitions, sample cone voltages, collision energies and retention time of the four 5-NDZs.

Analytes	Parent ion (m/z)	Daughter ion (m/z)	Cone voltage (V)	Collision energy (eV)	RT (min)
HMMNI	158.06	140.05*94.05	8	10-22	1.43
MNZ	172.07	128.05*82.05	18	12-22	1.5
MNZOH	188.07	126.03*123.06	16	10-14	1.12
RNZ	201.06	140.05*55.05	14	12-20	1.94