Construction of hollow fiber stirring bar based on dummy molecularly imprinted polymers for the selective determination of organophosphorus pesticides in food samples

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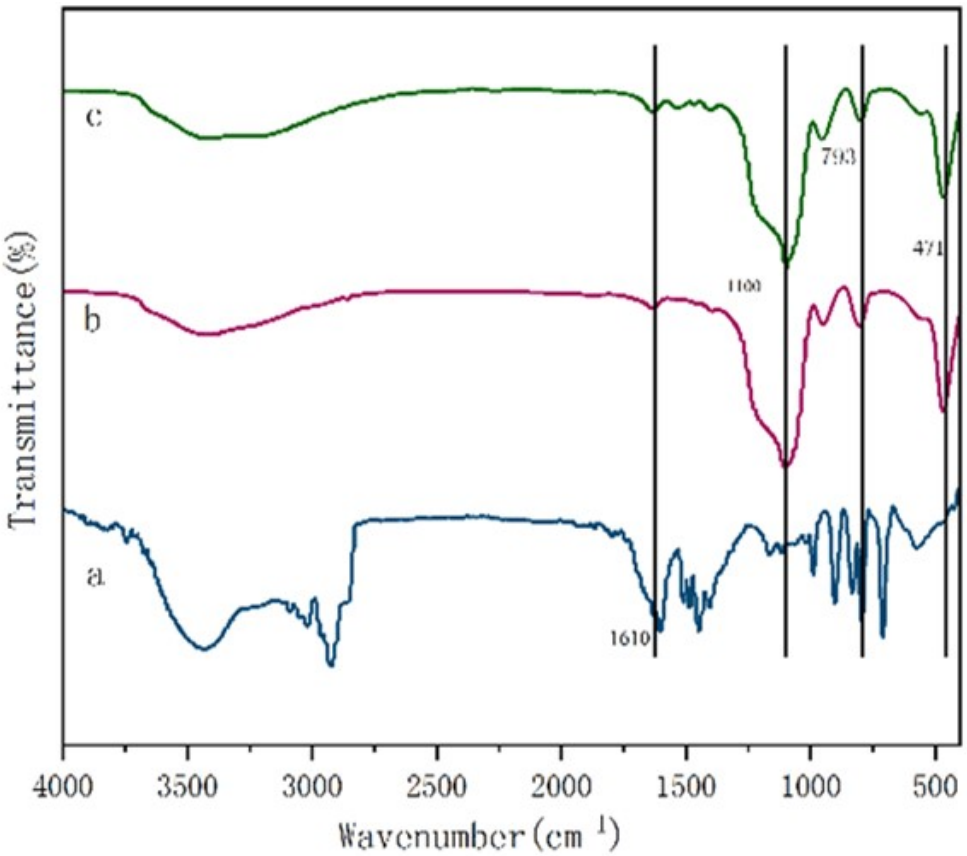

Fig. S1 Infrared spectra of CG161M (**a**), DMIPs@CG161M (**b**) and NIPs (**c**)

Table S1 The application of organophosphorus pesticides in different MIPs-based food and environmental matrices

Analytes	Template	Monomer	Method	Material	Samples	Analytical performance	Ref
Diazinon	Diazinon	MAA	MIP-MOF@M-DμSPE-GC-FID	$Fe_3O_4SiO_2$/PAEDTC@MIL-101 (Fe) @ MIP	Urine	LOD: 0.005 ng mL^{-1} LOQ：0.017ng mL^{-1} Recovery: 98.5 %	[1]
OPPs and Oxon metabolites	Diazinon	MAA	SPE-HPLC-UV	MIPs	Water	LOD：0.07-0.12μg L^{-1} Recovery：79-104%	[2]
Methyl parathion (MP)	Methyl parathion (MP)	4-aminothiophenol (P-atp)	Ampero-metry	MIP/Bi_2WO_6 QDs/COFWOTA/ITO	vegetable	LOD：1.096fmol L^{-1}. Recovery:91.0–102.0 %	[3]
7 OPPs	Coumaphos	MAA	MIP-MCL	MIPs	Milk	LOD：1-3pg mL^{-1} Intraday recoveries：86.1 -86.5% Interday recoveries：83.6-94.2%	[4]
Chlorpyrifos	Chlorpyrifos	(3-aminopropyl)triethoxysilane	Mn: ZnS QDs@ZIF-8@MIP RTP sensor	Mn: ZnS QDs@ZIF-8@MIP	Water	LOD：0.89μM Recovery: 92% ~ 105%	[5]
Chlorpyrifos	chlorpyrifos	MAA	MSPE-HPLC/UV	MMMIPs	apple	LOD: 0.028 μg·kg^{-1} Recovery: 96.2–106.5%	[6]
5 OPPs	Diphenyl chlorophosphate (DCP)	MAA	DMISPME -GC-MS	DMIPs@CG161M	Milk, Soy milk, Coffee, Huoxiang Zhengqi Shui	LOD：0.01–0.03 mg L^{-1} LOQ：0.03-0.11 mg L^{-1} Recovery:61.61 -91.41%	This work

Abbreviations

MIPs: Molecularly imprinted polymer SPE: Solid Phase Extraction, **MDSPME**: Magnetic dispersive solid-phase microextraction, **GC-MS**: Gas Chromatography-Mass Spectrometry, **GC-FID**: Gas Chromatography- flame ionization detector, **HPLC**: High-Performance Liquid Chromatography. **LOD**：limit of detection. RTP: rapid room-temperature phosphorescence. **MSPE**: Magnetic solid phase extraction. **MMMIP:** magnetic microporous molecularly imprinted polymer. **MISPME**: MIPs solid-phase microextraction

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