

# In-syringe dispersive solid phase extraction: a novel format for electrospun fiber based microextraction

Gang-Tian Zhu, Xiao-Mei He, Bao-Dong Cai, Han Wang, Jun Ding, Bi-Feng Yuan, and Yu-Qi Feng\*

Key Laboratory of Analytical Chemistry for Biology and Medicine (Ministry of Education),  
Department of Chemistry, Wuhan University, Wuhan 430072, P.R. China

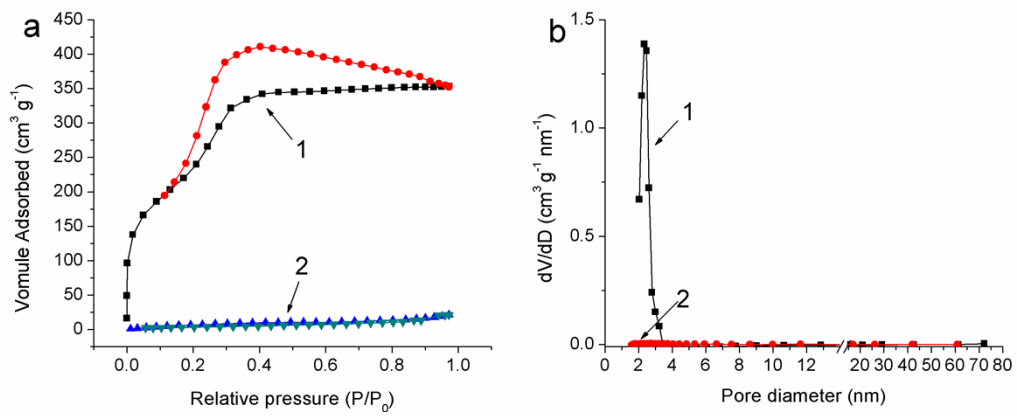
\* Corresponding author: Yu-Qi Feng, Department of Chemistry, Wuhan University, Wuhan 430072, P.R. China. Tel: +86-27-68755595; Fax: +86-27-68755595; E-mail: [yqfeng@whu.edu.cn](mailto:yqfeng@whu.edu.cn)

**Table S1.** The recoveries (% , RSD) of cytokinins by in-syringe dSPE.

	Recoveries (% , RSD)							
	tZ9G	tZ	tZR	DHZ	DHZR	iP9G	iP	iPR
Standard cytokinins	76 (5%)	75 (6%)	59 (9%)	60 (3%)	89 (17%)	56 (14%)	64 (8%)	55 (10%)
Plant sample	48 (5%)	32 (6%)	58 (1%)	31 (19%)	53 (11%)	29 (13%)	12 (14%)	30 (15%)

**Table S2.** Calibration curves, LODs and LOQs of cytokinins.

Analytes	Linear dynamic range (ng mL <sup>-1</sup> )	Regression line			LODs (pg mL <sup>-1</sup> )	LOQs (pg mL <sup>-1</sup> )
		Slope	Intercept	<i>R</i> <sup>2</sup> value		
tZ9G	0.003-20	18.783	1.870	0.9987	0.6	2.1
tZ	0.01-20	7.824	0.814	0.9982	4.5	15.0
tZR	0.005-20	4.564	0.262	0.9989	1.6	5.2
DHZ	0.03-20	2.596	0.384	0.9955	7.5	24.9
DHZR	0.003-20	7.198	0.940	0.9954	0.7	2.2
iP9G	0.003-20	10.865	-0.551	0.9991	0.8	2.6
iP	0.03-20	1.604	0.134	0.9990	9.0	29.9
iPR	0.001-20	8.319	0.944	0.9984	0.3	0.8



**Figure S1.** N<sub>2</sub> adsorption–desorption isotherms of MSF (a1) and ASF (a2), and pore size distributions of MSF (b1) and ASF (b2).