

**Table S1.** The experimental factors, levels, design matrix and response of fractional factorial design

<b>factors (symbols)</b>	<b>Low (-1)</b>	<b>High (+1)</b>
Amount of adsorbent (mg) (A)	2	8
Amount of salt (%W/V-NaCl) (B)	0	1
pH of sample solution (C)	4	8
Extraction time (min) (D)	1	10
Desorption time (min) (E)	5	10
Volume of desorption solvent (µL) (F)	200	500

  

Numbers	Parameters						Peak area
	A	B	C	D	E	F	
1	-1	1	1	1	-1	1	111.00
2	1	1	1	-1	1	-1	53.000
3	-1	1	-1	1	1	-1	59.000
4	1	-1	-1	1	1	1	53.000
5	1	1	-1	-1	-1	1	101.00
6	-1	-1	1	1	1	-1	56.000
7	-1	-1	-1	1	-1	1	115.00
8	1	-1	1	-1	-1	1	105.00
9	1	1	1	1	1	1	45.700
10	1	-1	-1	-1	1	-1	45.060
11	1	1	-1	1	-1	-1	109.41
12	1	-1	1	1	-1	-1	100.00
13	-1	-1	1	-1	1	1	65.000
14	-1	1	-1	-1	1	1	51.000
15	-1	-1	-1	-1	-1	-1	129.00
16	-1	1	1	-1	-1	-1	121.00