

Table S1. Design matrix for the central composite design.

Run No.	Block	pH	Adsorbent (mg)	CTAB (mg)	Response
1	1	2.42	24.93	2.82	0.242
2	1	4.5	17.5	5.5	0.571
3	1	6.58	24.93	2.82	0.498
4	1	2.42	24.93	8.18	0.412
5	1	6.58	10.07	2.82	0.313
6	1	4.5	17.5	5.5	0.554
7	1	4.5	17.5	5.5	0.534
8	1	6.58	24.93	8.18	0.449
9	1	2.42	10.07	2.82	0.269
10	1	4.5	17.5	5.5	0.456
11	1	6.58	10.07	8.18	0.34
12	1	4.5	17.5	5.5	0.549
13	1	4.5	17.5	5.5	0.56
14	1	2.42	10.07	8.18	0.353
15	2	4.5	17.5	5.5	0.554
16	2	4.5	17.5	10	0.368
17	2	4.5	5	5.5	0.323
18	2	4.5	17.5	5.5	0.526
19	2	1	17.5	5.5	0.203
20	2	4.5	17.5	5.5	0.494
21	2	8	17.5	5.5	0.391
22	2	4.5	17.5	1	0.306
23	2	4.5	30	5.5	0.623

Table S2. Reusability of the adsorbent for nitrite extraction.

Number of usage	Absorbance ^a	RSD (%) ^b	Recovery (%)
1st	0.60	1.03	97.7
2nd	0.59	1.06	95.2
3rd	0.61	1.00	98.4
4th	0.63	1.74	101.6
5th	0.59	0.98	95.2
6th	0.59	1.00	95.2
7th	0.60	1.03	97.7
8th	0.62	1.20	100
9th	0.58	1.01	93.5
10th	0.61	1.00	98.4

^a At 514 nm. ^b Relative standard deviation (n=3, C=40 ng mL⁻¹).

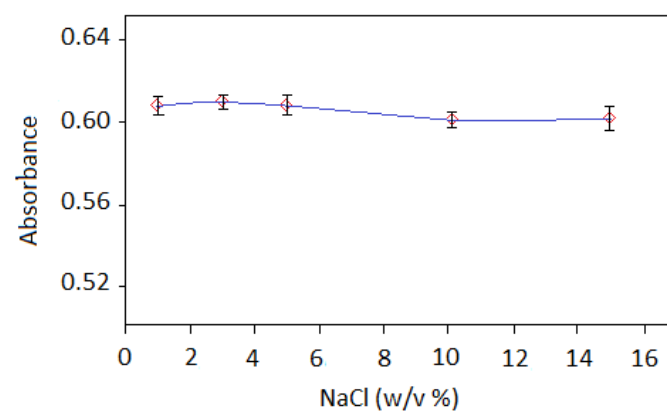


Figure S1. Effect of salt concentration on the efficiency of extraction. Conditions: Sample solution (25 mL); pH 6.6; adsorbent 10 mg; and C-TAB, 3 mg.