

## Supplementary materials

### Tables S1:

**S1. Wave numbers (cm<sup>-1</sup>) and their assignments of FTIR spectra for GO, MGONPs and β-CD-MGONP nanosorbents.**

Peak assignment	Wave numbers (cm <sup>-1</sup> )		
	GO	MGONPs	β-CD-MGONP
Fe-O stretching vibration	-	550.3	554.3
R-1, 4-bond skeleton vibration of β-CD	-	-	1027.2
O-H stretching vibration of β-CD	-	-	3425
O-H stretching vibration	3227.3	3220.0	3425
C=O stretching vibration peaks of carboxyl and carbonyl in GO	1711.2 and 1400.2		
Aromatic C=C stretching vibration peaks of GO	1583		
C-O stretching vibration of epoxy and alkoxy groups in GO	1170.1 and 1121.4		