

Supporting Information

Amino acid-Inspired Electrochemical Recognition of Phenylalanine

Enantiomers by Amphoteric Chitosan

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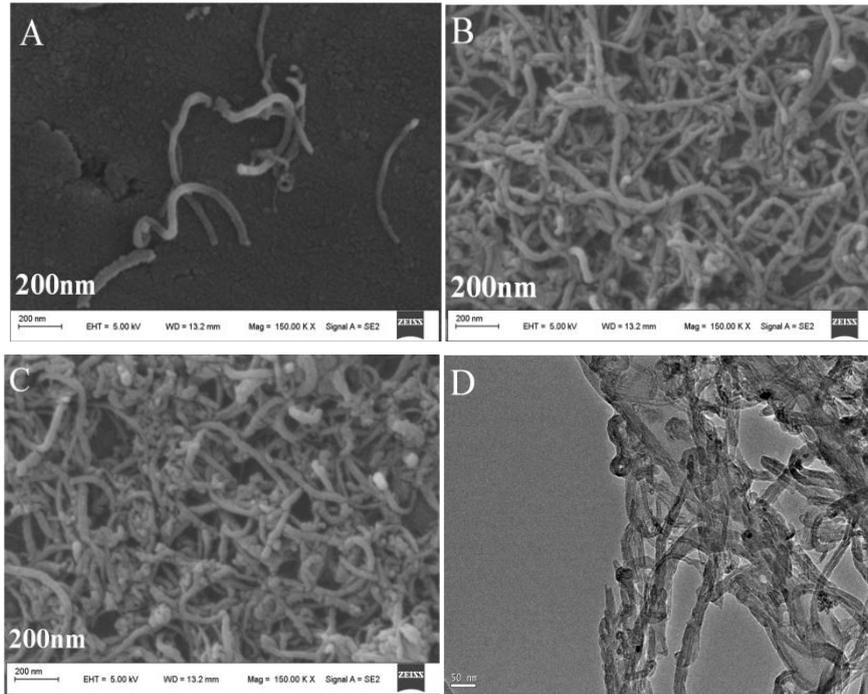


Fig. 1S The SEM and TEM image of (A) MWCNTs, (B) MWCNTs-EA and (C) MWCNTs-EA-ACCS (D) MWCNTs-EA-ACCS.

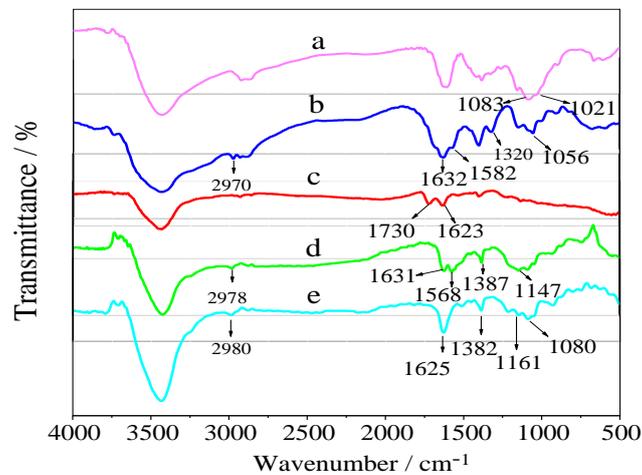


Fig. 2S FT-IR spectra of (a) CS (b) ACCS (c) MWCNTs-COOH (d) MWCNTs-EA and (e) MWCNTs-EA-ACCS.

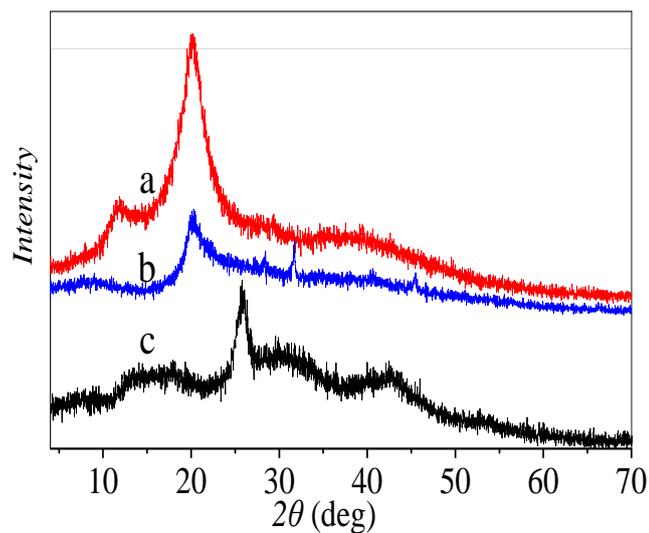


Fig. 3S XRD spectrums of (a) CS, (b) ACCS and (c) MWCNTs-EA-ACCs.

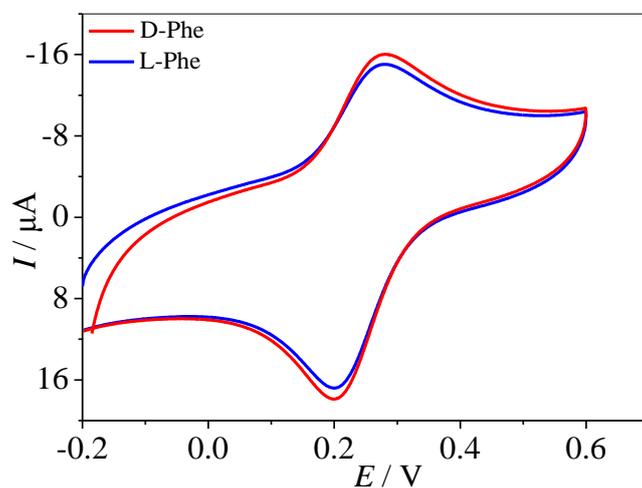


Fig.4S CV of 10 mM Phe enantiomers at MWCNTs/GCE in 0.2 M PBS buffer solution (pH=6.0) containing 5.0 mM $[\text{Fe}(\text{CN})_6]^{3-/4-}$.

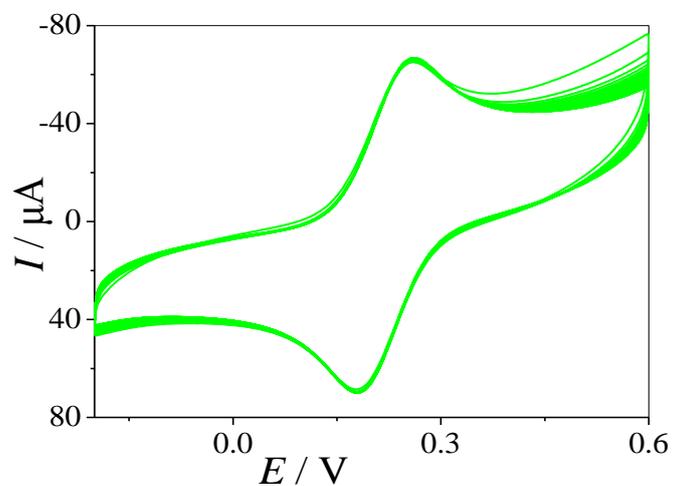


Fig.5S The stability of MWCNTs-EA-ACCs/GCE

Table 1S The reproducibility of the MWCNTs-EA-ACCS/GCE

MWCNTs-EA-ACCS/GCE	1	2	3	4	5
$\Delta I(I_{D-Phe}-I_{L-Phe})$	0.67	0.71	0.75	0.73	0.66
RSD	3.8%				