Supporting Information

A novel label-free electrochemical immunosensor based on the composite of LPCs-SnS$_2$ and AuNPs for the detection of human chorionic gonadotropin

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The FTIR spectra of the LPCs was shown in Fig. S1. the broad peak at 3435 cm\(^{-1}\) are associated with the typical O–H stretching vibrations\(^1\).\(^2\). The peak at 1734 cm\(^{-1}\) was stretching vibration absorbance of C=O\(^1\).\(^3\). In addition, the bands in 1000-1300 cm\(^{-1}\) were attributed to C-OH stretching and O-H bending vibrations\(^4\).\(^5\). These results indicated that the LPCs had abundant oxygen containing functional groups.
Fig. S1. The FTIR spectra of LPCs
Fig. S2. SEM images of pure SnS$_2$
Fig. S3. EDS of LPCs-SnS<sub>2</sub>

References