

Supplementary information

A molecularly imprinted polymer-based electrochemical sensor for detection of colistin in milk

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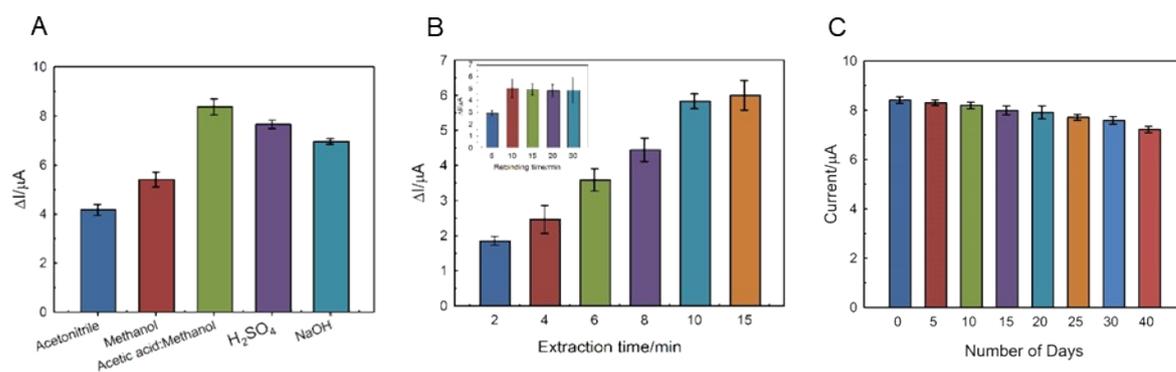


Figure S1: Optimization of different parameters, template extraction solvents (A), optimisation of extraction time using acetic acid: methanol (9:1) and rebinding time for colistin in imprinted polymer (B) and evaluation of MIP/Ppy/AuSPE sensor stability (RSD % represented with red dotted line) (C).

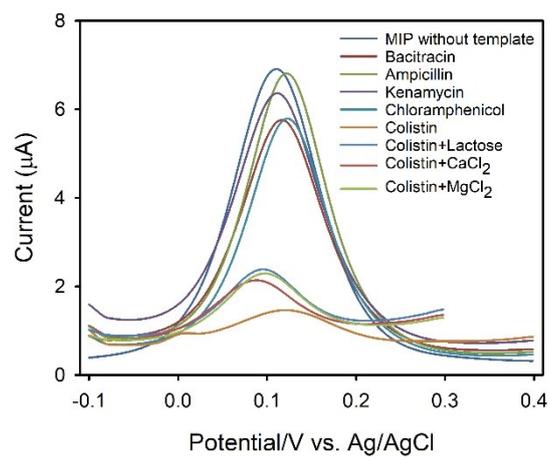


Figure S2: DPV curve of selectivity and Interference of MIP/Ppy/AuSPE sensor towards colistin upon the addition of the different interfering molecules

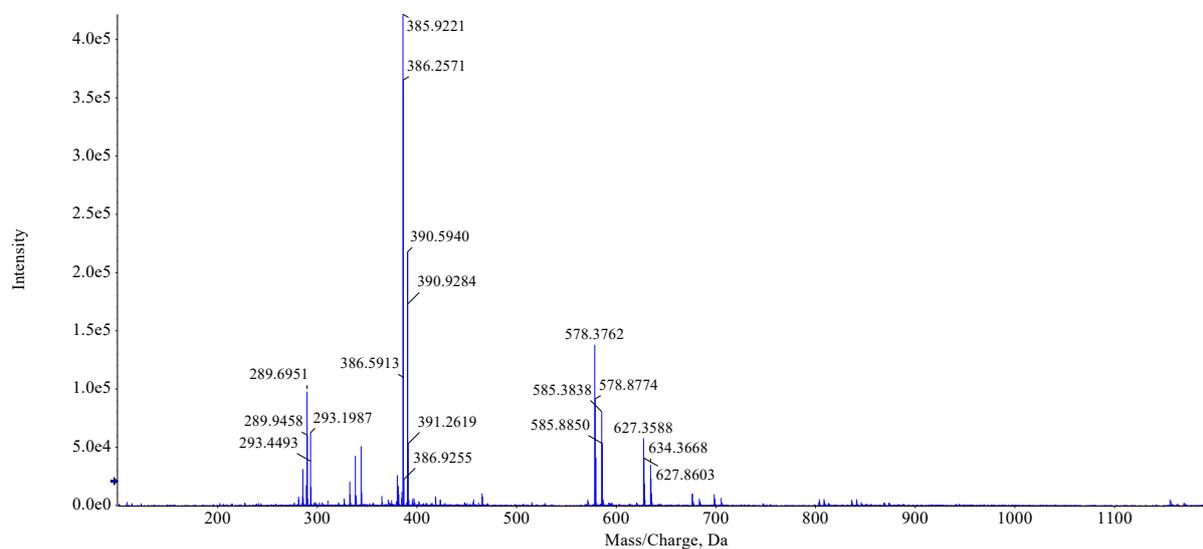


Figure S3: Full scan mass spectra of colistin using LC-MS/MS. Parent and daughter ion mass spectrograms of colistin A and colistin B observed at m/z 585.35 \rightarrow 390.92 Da and 578.38 \rightarrow 385.92 Da in positive-ion electrospray ionization (ESI).