

Supplementary Information

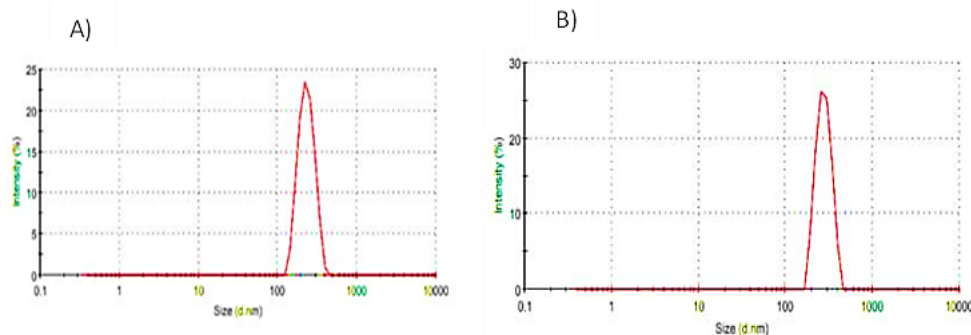
Core-Shell Molecularly Imprinted Polymer Sensor for Enrofloxacin Determination in Various Matrices: A Novel, Sustainable One Health Analytical Strategy

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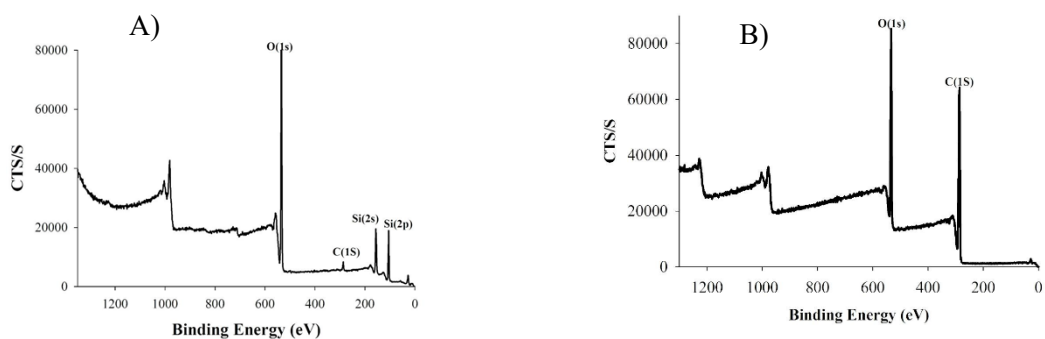
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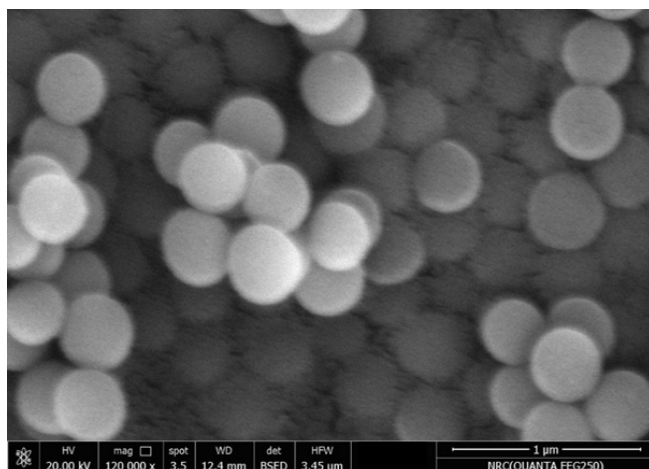
Supplementary Figures:



Supplementary Material Fig.S1. The particle size of A) silica nanoparticles and B) the molecular imprinted polymer MIP 1 using Malvern Zetasizer Nano-ZS



Supplementary Material Fig. S2. X-Ray photoelectron spectroscopy spectra of A) the silica nanoparticles and B) the molecular imprinted polymer



Supplementary Material Fig. S3. SEM image of core-shell MIP beads.

Data for pH effect

pH	10 ⁻⁴	10 ⁻³
2	-253	-182
3	-259	-187
4	-259	-189
5	-267	-199
6	-281	-234

Data for Temp effect

Conc (-log)	20°C	30°C	35 °C
2	-142	-133	-125
3	-200	-194	-190
3.3	-212	-207	-202
4	-263	-255	-243
5	-314	-311	-306

Data for calibration curves obtained for ENR and some relevant concentrations of interfering ions, main metabolite and co-administered drug using the designed sensor.

-log Conc	ENR	AMX	CIP	KCl	Mg	Ca	Zn	Na	urea
2	-3	-100	-75	-166	-250	-241	-147	-135	-260
3	-53	-140	-101	-196	-249	-275	-151	-158	-264
4	-107	-210	-160	-201	-267	-312	-170	-191	-266
5	-162	-270	-225	-218	-275	-330	-201	-201	-266

Software Access

- Greenness Assessment Software

Software makes the assessment procedure straightforward. It is open-source and downloadable from <https://mostwiedzy.pl/AGREE>.

web app version of the tool: <https://agree-index.anvil.app/>

Windows download link https://cdn.mostwiedzy.pl/ce/04/fe/87/0_202006252225192794921_FME/agree-sfx.exe

- White Analytical Chemistry Assessment

The Excel worksheet as a template for assessments using the RGB 12 algorithm

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