

Advanced Vaginal Nanodelivery of Losartan Potassium *via* PEGylated Zein Nanoparticles for Methicillin-Resistant *Staphylococcus aureus*

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Supplementary Information

Tables

Table S1. Chromatographic conditions for LOS quantification using HPLC.

Parameter	Condition
Instrument	Waters Alliance 2690 HPLC system, equipped with a 996-photodiode array (PDA) detector (Waters, Milford, MA, USA)
Column	Waters Xterra C ₁₈ (5 µm, 4.6 x 150 mm)
Mobile Phase	0.5% Triethylamine solution pH 2.4: Acetonitrile (60:40, v/v)
Flow Rate	1 mL/min
Detection Wavelength	225 nm
Injection Volume	20 µL
Column Temperature	20° C
Autosampler Temperature	25° C
Run Time	8.0 min

Table S2. Calibration Curve Parameters for LOS quantification using HPLC.

Conc (µg/mL)	Peak Area
0.02	2004
0.05	2740
0.1	7587
1	73260
10	755587
20	1537991
50	3841514
100	7728388

Figures

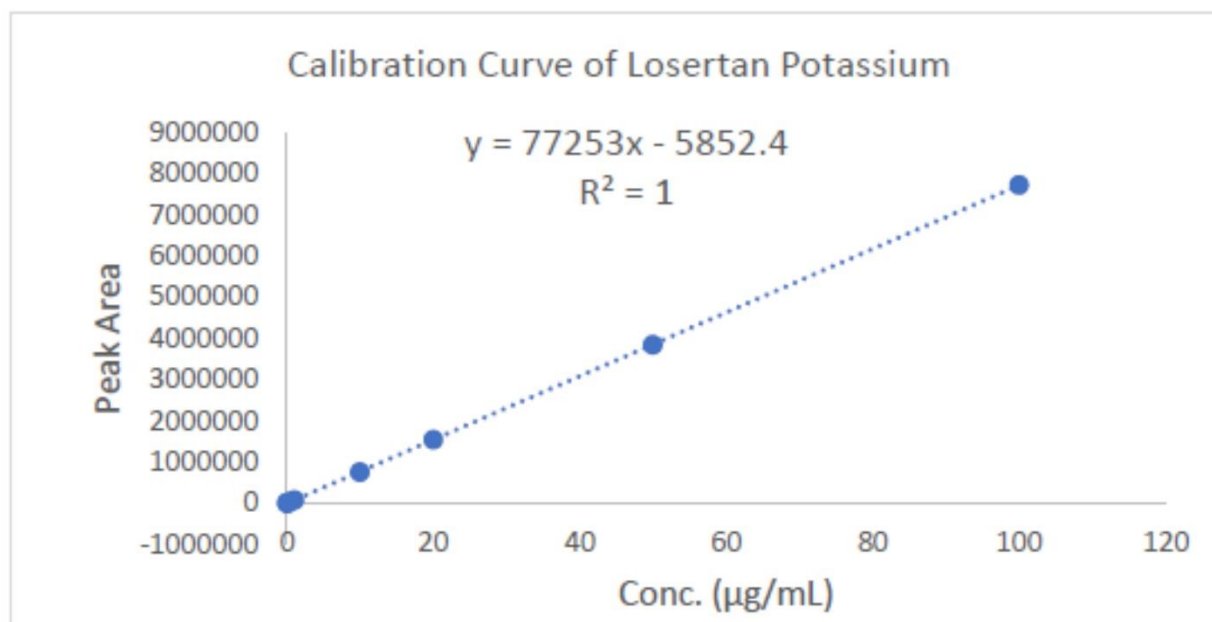


Figure S1. Calibration curve of LOS using HPLC within the concentration range of 0.02–100 µg/mL, showing excellent linearity ($R^2 = 1$).

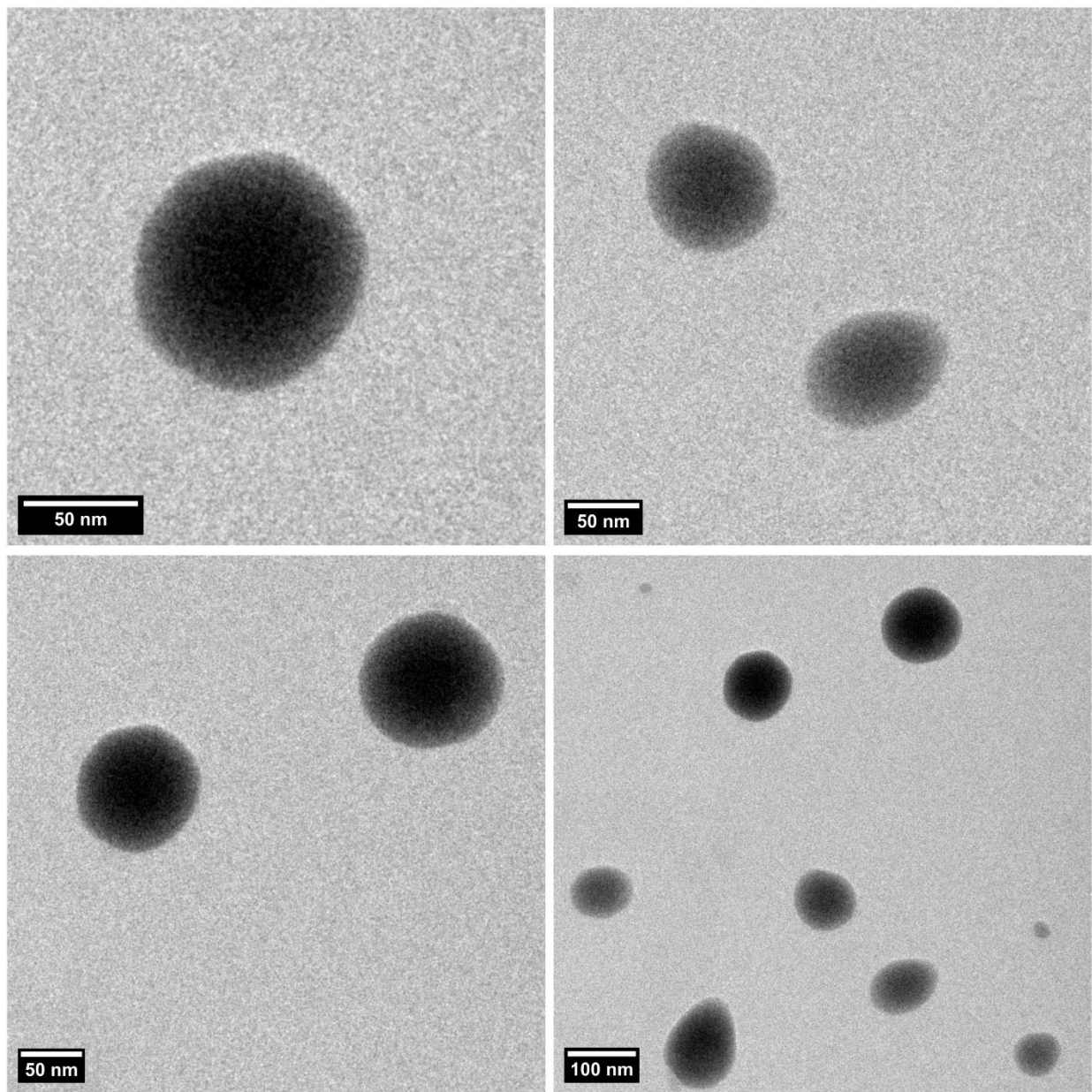


Figure S2. Transmission electron microscopy (TEM) images of the optimum formulation at magnifications corresponding to 50 nm and 100 nm scale bars.