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Supplementary Materials

Novel Thymoquinone Nanoparticles Using Poly(Ester Amide) Based on L-Arginine-Targeting Pulmonary Drug Delivery

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Section S1

S1.1 Release Kinetic Modelling

Figures S1-S5 demonstrated the linear regression of the five release kinetics mathematical models.

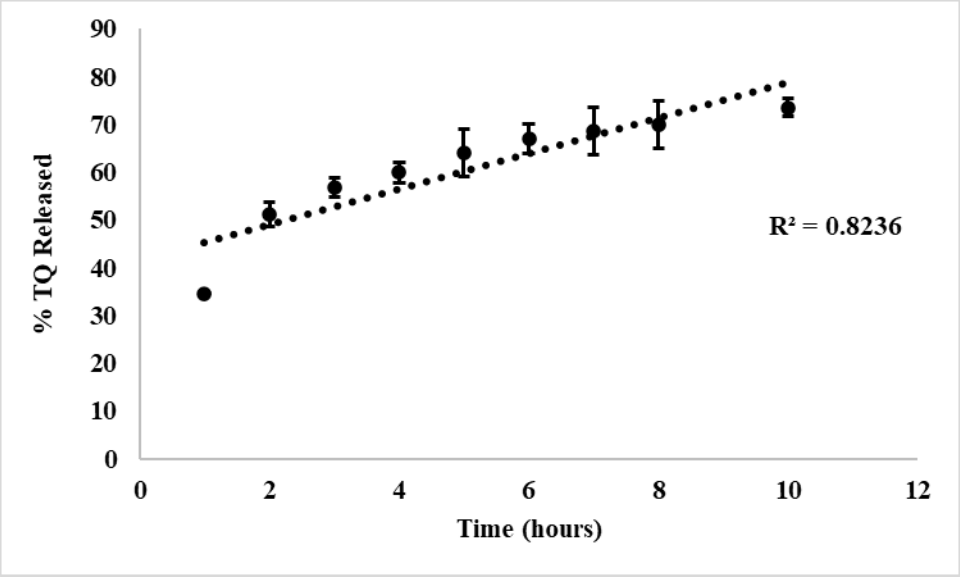


Figure S1. Linear regression of Zero Order Kinetics mathematical model of TQ from TQ-loaded poly(ester amide) based on L-arginine nanoparticles (F3) with the related R^2 value.

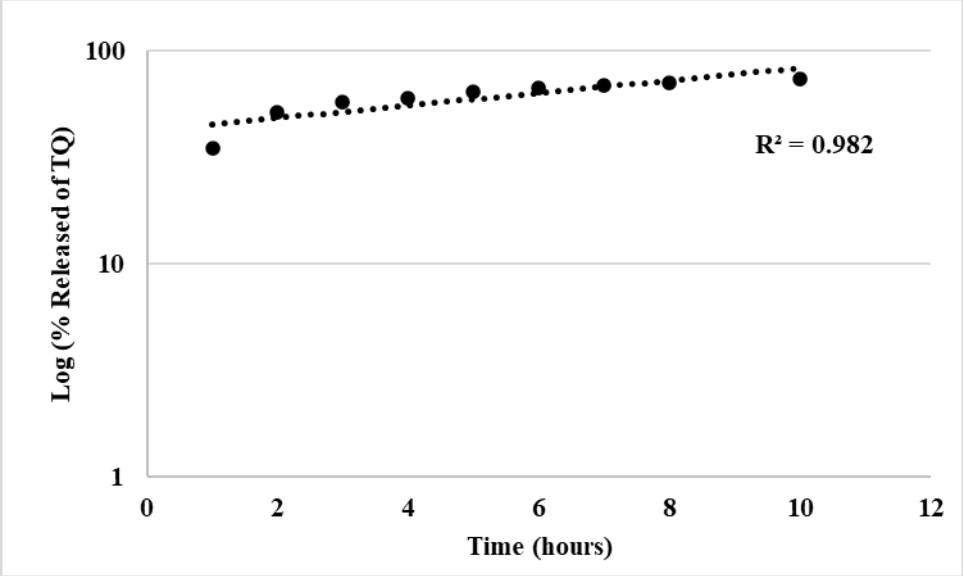


Figure S2. Linear regression of First Order Release Kinetics mathematical model of TQ from TQ-loaded poly(ester amide) based on L-arginine nanoparticles (F3) with the related R^2 value.

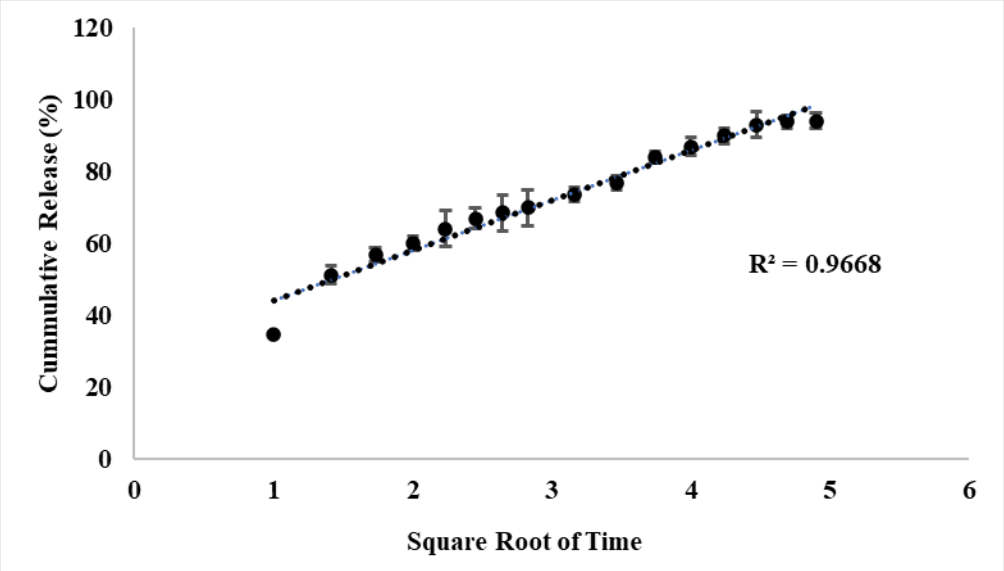


Figure S3. Linear regression of Higuchi Release Kinetics mathematical model of TQ from TQ-loaded poly(ester amide) based on L-arginine nanoparticles (F3) with the related R^2 value.

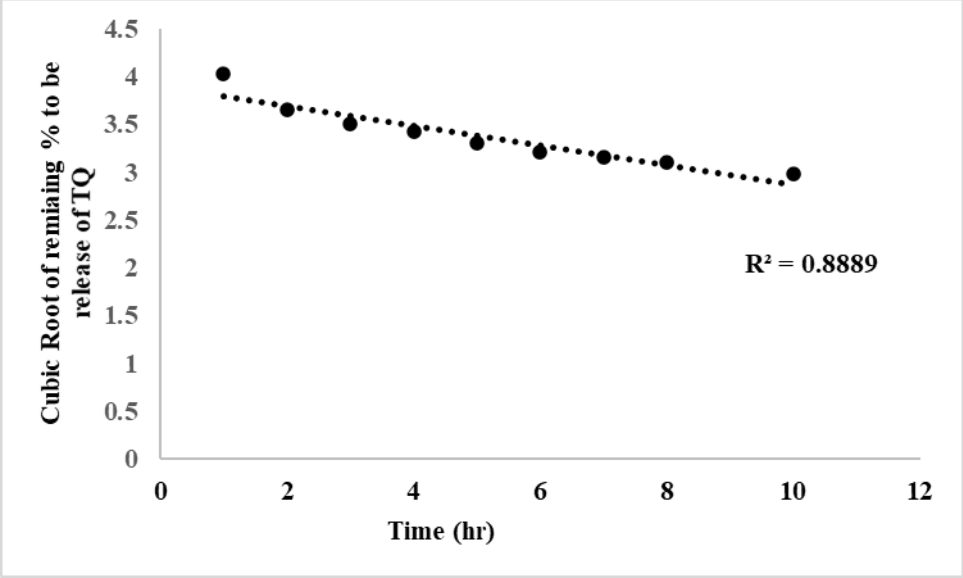


Figure S4. Linear regression of Hixon Crowell Release Kinetics mathematical model of TQ from TQ-loaded poly(ester amide) based on L-arginine nanoparticles (F3) with the related R^2 value.

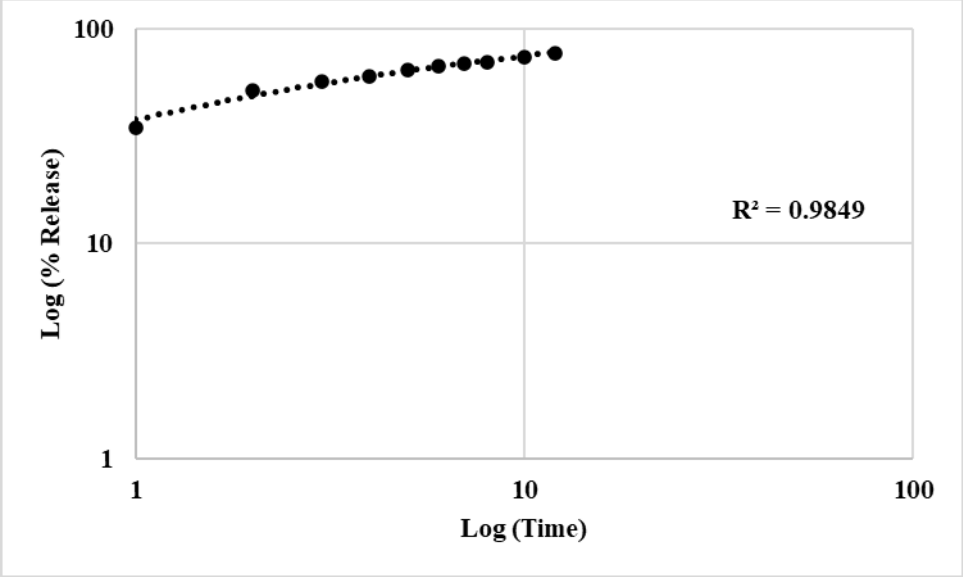


Figure S5. Linear regression of Korsmeyer -Peppas Release Kinetics mathematical model of TQ from TQ-loaded poly(ester amide) based on L-arginine nanoparticles (F3) with the related R^2 value.