Supplementary Materials

Taste Masking of Promethazine Hydrochloride Using L-Arginine Polyamide-Based Nanocapsules

Hamad S. Alyami [1], Dalia Khalil Ali [2], Qais Jarrar [3], Abdolelah Jaradat [3], Hadeel Aburass [3], Abdul Aleem Mohammed [1], Mohammad H. Alyami [1], Alhassan H. Aodah [4] and Eman Zmaily Dahmash [5,*]

[1] Department of Pharmaceutics, College of Pharmacy, Najran University, Najran 55461, Saudi Arabia
[2] Department of Physiotherapy, Faculty of Allied Medical Sciences, Isra University, Amman 1162, Jordan;
[3] Department of Applied Pharmaceutical Sciences and Clinical Pharmacy, Faculty of Pharmacy, Isra University, Amman 11622, Jordan
[4] National Center of Biotechnology, Life Science & Environment Research Institute, King Abdulaziz City for Science and Technology, Riyadh, 11442, Saudi Arabia
[5] Department of Chemical and Pharmaceutical Sciences, School of Life Sciences, Pharmacy and Chemistry, Kingston University London, Kingston upon Thames KT1 2EE, UK
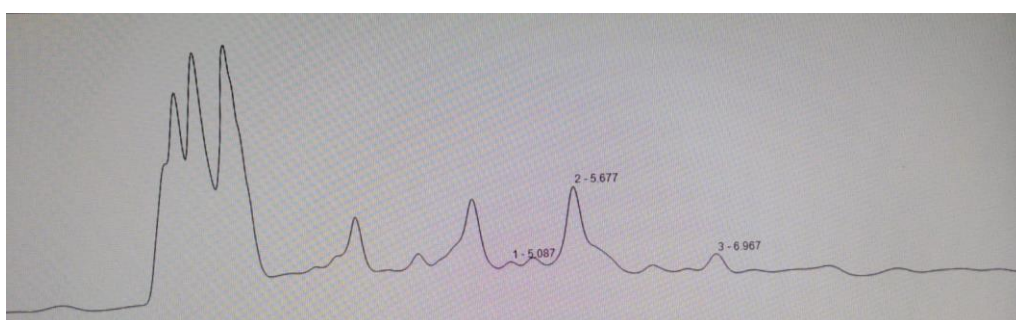* Correspondence: e.dahmash@kingston.ac.uk; Tel.: +44-7542329215

Section S1

Representative HPLC chromatograms
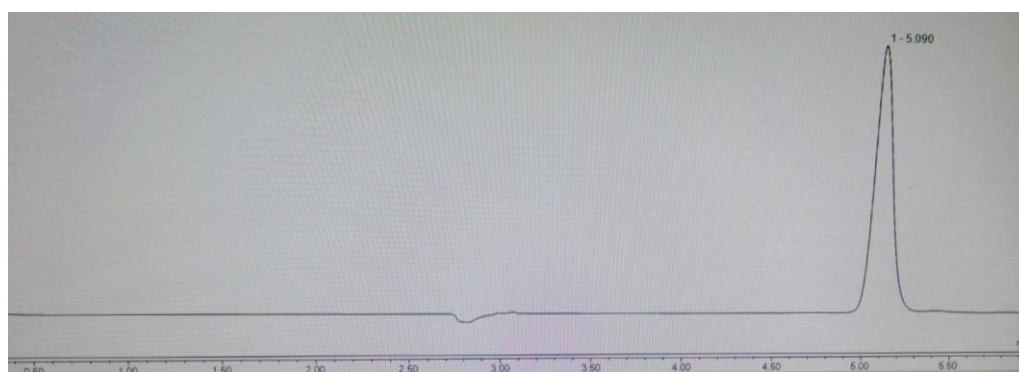
**Figure S1.** Representative HPLC chromatograms of PMZ with retention time at 5.09 minutes

Figure S2. Representative HPLC chromatograms of the polymer highlighting no interference at the retention time of PMZ
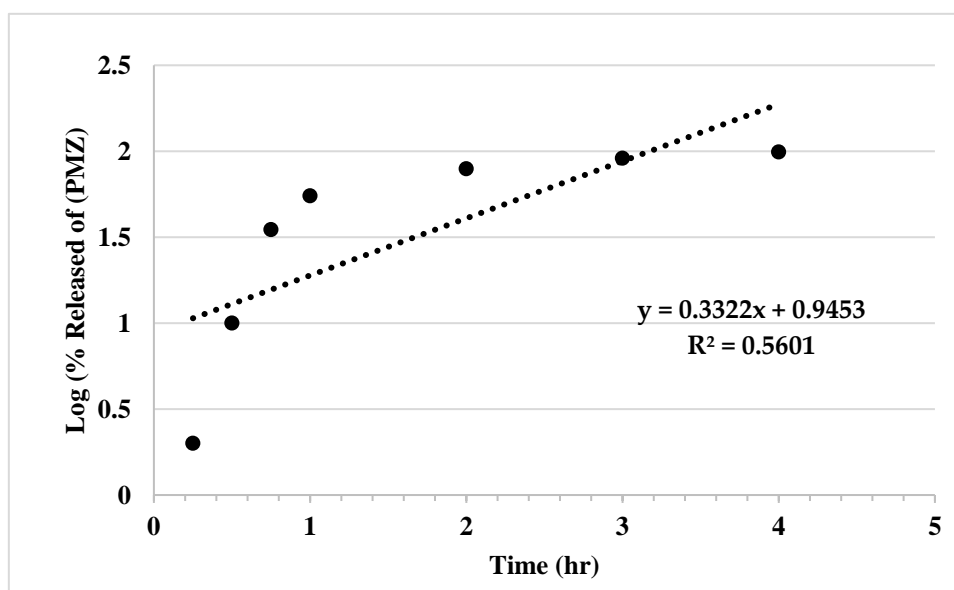
Section S2

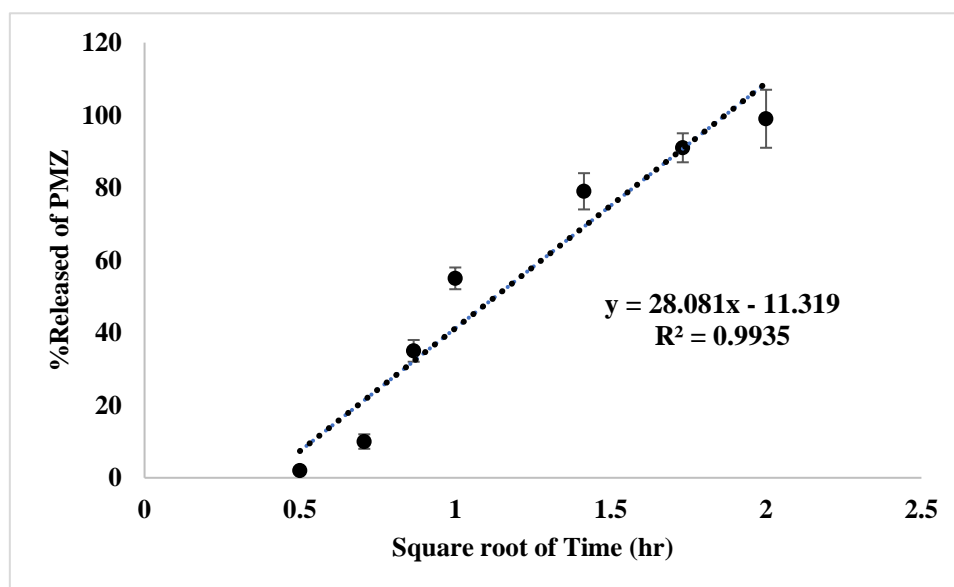### Release Kinetics of PMZ from PMZ/ Arg-PA NCs

The release results of PMZ from the formula PMZ/ Arg PA NCs were modelled using the commonly used mathematical models and results are presented in Figures S3-S7
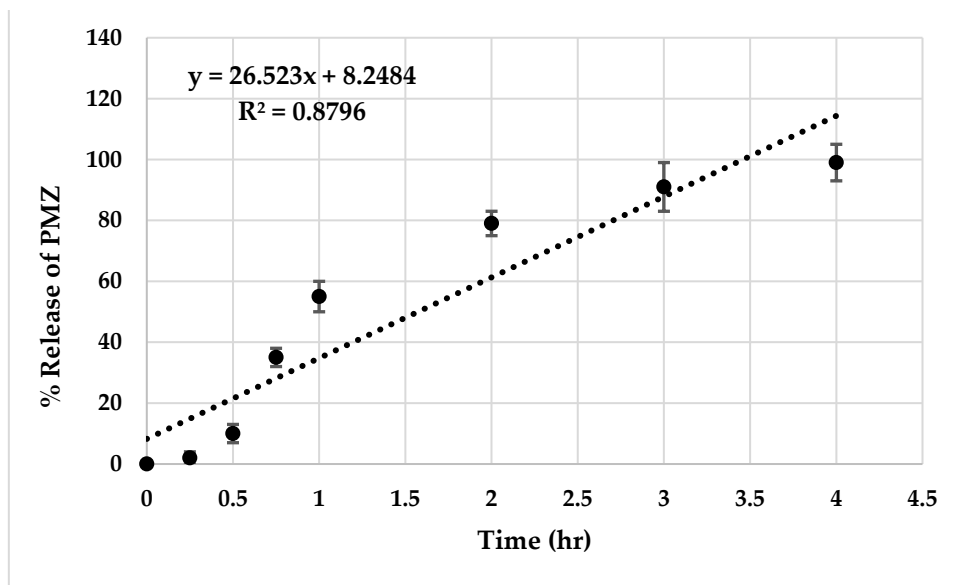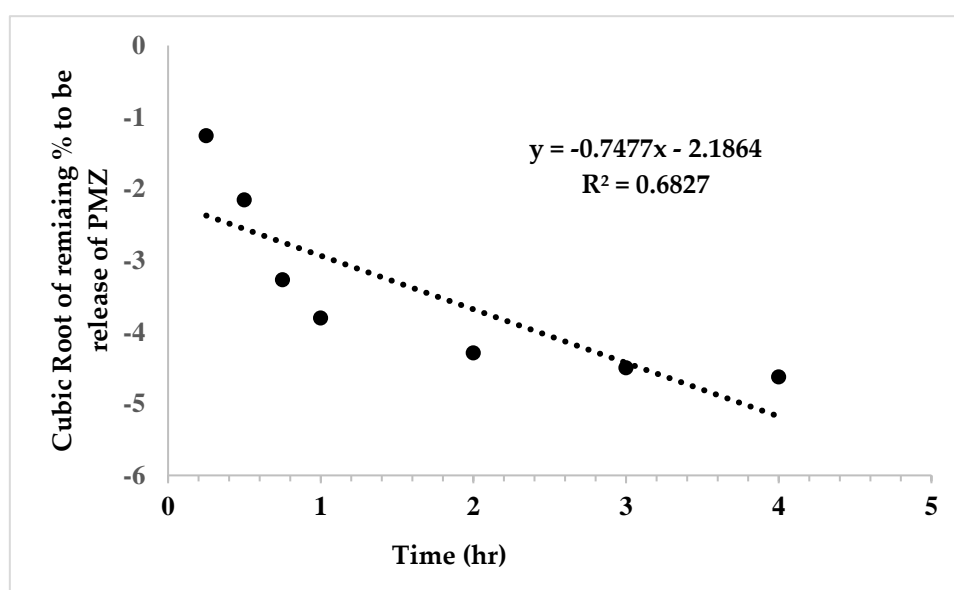
Figure S3. Linear regression of the Zero order kinetic mathematical model of PMZ from PMZ/Arg-PA NCs (F6). (R^2 is the coefficient of determination)
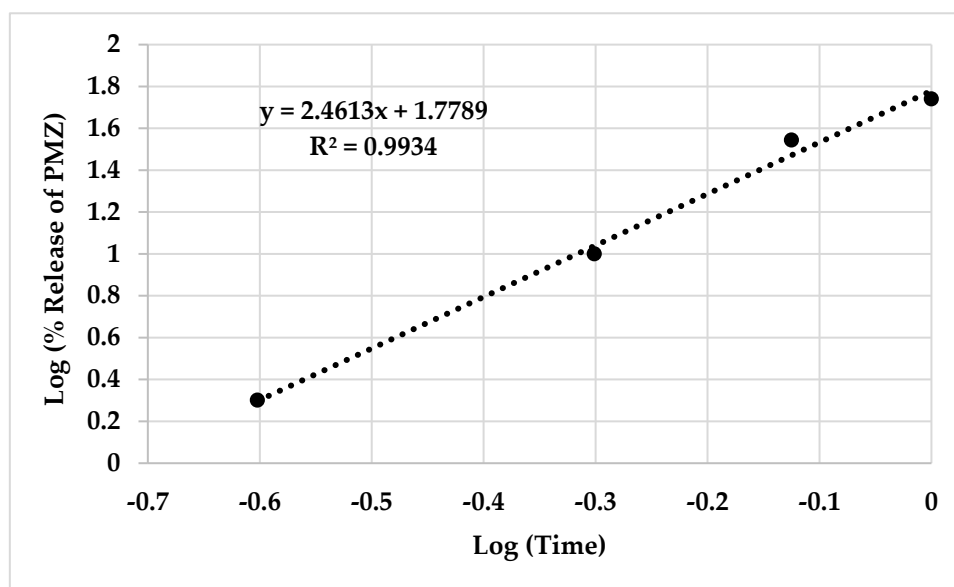

Figure S4. Linear regression of the First order kinetic mathematical model of PMZ from PMZ/Arg-PA NCs (F6). (R^2 is the coefficient of determination)

Figure S5. Linear regression of the Higuchi kinetic mathematical model of PMZ from PMZ/Arg-PA NCs (F6). (R^2 is the coefficient of determination)

Figure S6. Linear regression of the Hixon Crowell kinetic mathematical model of PMZ from PMZ/Arg-PA NCs (F6). (R^2 is the coefficient of determination)

Figure S7. Linear regression of the Korsmeyer -Peppas kinetic mathematical model of PMZ from PMZ/Arg-PA NCs (F6). (R^2 is the coefficient of determination). Note this model requires the use of release data till 60% of material