

Predicting the release profile of small molecules from within the ordered nanostructured lipidic bicontinuous cubic phase using translational diffusion coefficients determined by PFG-NMR

Supporting Information

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Table S1. SAXS determined structural parameters of monoolein and phytantriol based cubic mesophases encapsulating increasing amounts of 200 mM L-histidine or 200 mM L-phenylalanine.

| Sample | Phase | LP (Å) |
|------------------------|--------------|---------------|
| MO 35% L-histidine | Ia3d | 149.7 |
| MO 40% L-histidine | Pn3m | 101.0 |
| MO 42% L-histidine | Pn3m | 103.3 |
| MO 44% L-histidine | Pn3m | 103.4 |
| MO 46% L-histidine | Pn3m | 105.5 |
| MO 44% L-phenylalanine | Ia3d | 175.0 |
| MO 44% L-phenylalanine | Pn3m | 106.2 |
| MO 46% L-phenylalanine | Pn3m | 110.2 |
| MO 48% L-phenylalanine | Pn3m | 118.8 |
| MO 50% L-phenylalanine | Pn3m | 125.6 |
| MO 52% L-phenylalanine | Pn3m | 125.9 |
| PT 26% L-histidine | Ia3d | 100.1 |
| PT 28% L-histidine | Pn3m | 65.6 |
| PT 30% L-histidine | Pn3m | 68.2 |
| PT 32% L-histidine | Pn3m | 68.7 |
| PT 26% L-phenylalanine | Pn3m | 66.7 |
| PT 28% L-phenylalanine | Pn3m | 66.7 |
| PT 30% L-phenylalanine | Pn3m | 68.7 |
| PT 32% L-phenylalanine | Pn3m | 68.9 |

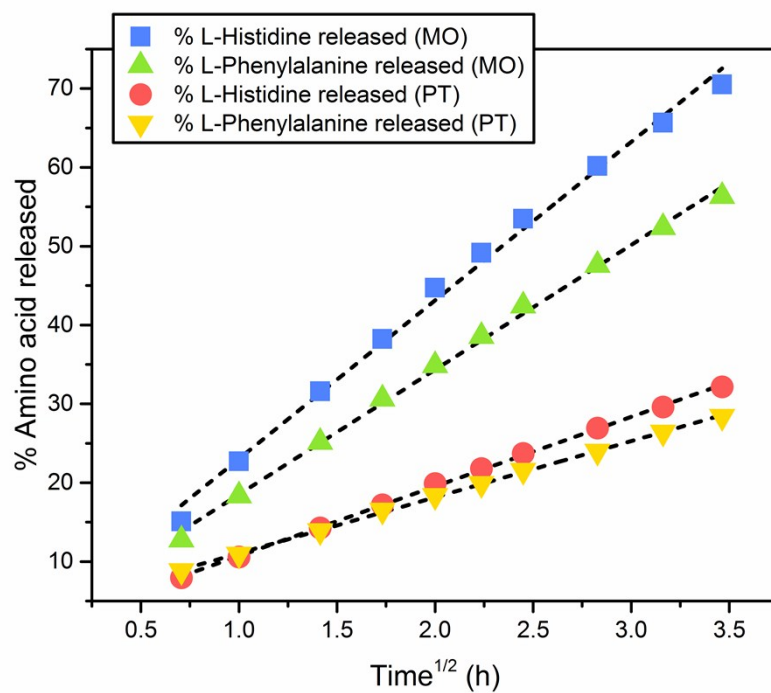


Figure S1. Plot of % amino acid released versus square root of time (hours), for each of the four systems measured directly in the *in vitro* release study.