

Supporting information

- Effect of increased variables on the EE of leuprolide and D (0.5) in formulations; kinetics of leuprolide loss during secondary homogenization process and in-liquid drying process.

Table S1. Effect of increased variables on the EE of leuprolide and D (0.5) in formulations.

Parameters ↑	Change of EE	Change of D (0.5)
Polymer supplier/	Resomer ↑	Resomer ↑
Gelatin bloom number	↑	↑
Polymer concentration	↑	↑
1 st water phase volume	Not significant	↑
1 st homogenization speed	(slightly) ↑	↑
1 st homogenization time	↓	Standard is the smallest
2 nd homogenization time	↓	↓
2 nd water phase volume	↓	↑
Stir rate (rpm)	↑	Not significant

Note: ↑ and ↓ indicates upregulation and downregulation.

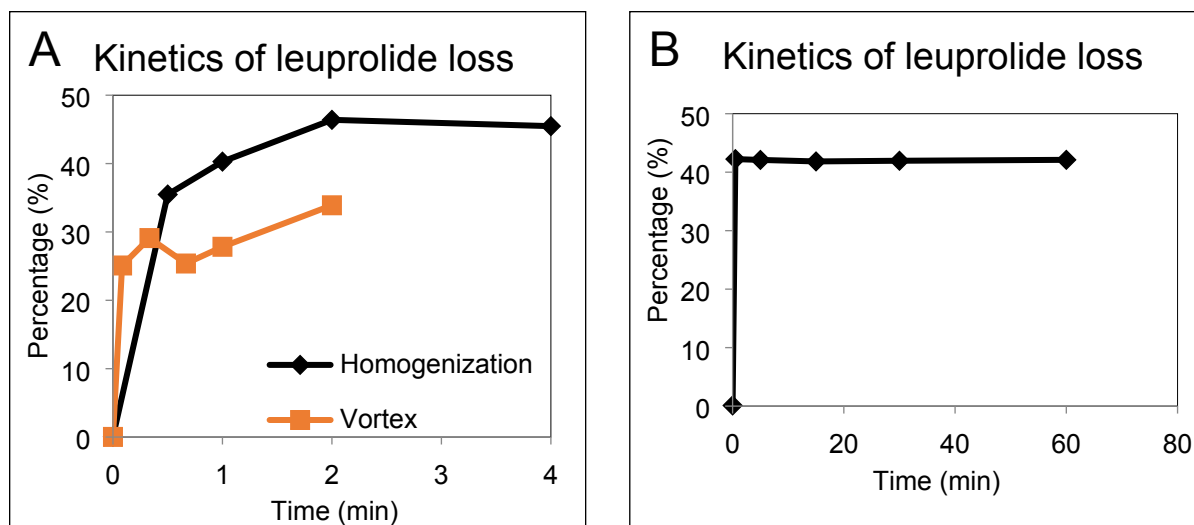


Figure S1. Kinetics of leuprolide loss during secondary homogenization process (A) and in-liquid drying process (B).