

# Supplementary Materials: Impact of Mixing on Content Uniformity of Thin Polymer Films Containing Drug Micro-Doses

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**Table S1.** Factors and levels of mixing processing conditions through Taguchi L9 orthogonal array.

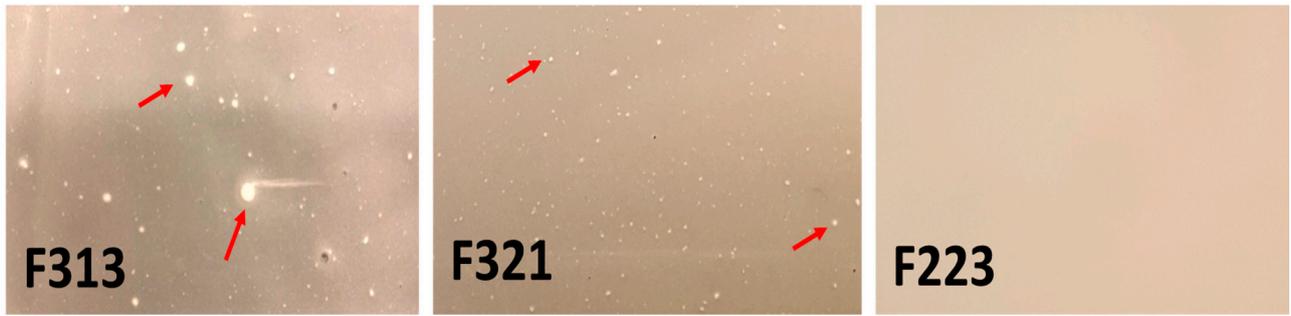
Factors	Level 1	Level 2	Level 3
Mixer Type	Impeller	Planetary	Vibrational
Mixing Speed	Low	Medium	High
Mixing Time	Slow	Intermediate	Fast

**Table S2.** RSD% values of drug amount (mg) per sample from precursor suspensions and dried-films.

Run	RSD% (Precursor)	RSD% (Dried-film)
F111	19.01	5.28
F122	6.55	4.31
F133	1.59	3.14
F231	2.71	5.05
F212	9.69	4.35
F223	4.04	2.02
F321	17.69	8.17
F332	6.89	4.87
F313	27.83	15.95

**Table S3.** Response table of S/N ratios for RSD% of drug content uniformity based on drug dose (mg/cm<sup>2</sup>).

Level	Type	Intensity	Time
1	-12.36	-17.09	-15.59
2	-10.98	-12.35	-13.07
3	-18.68	-12.58	-13.37
Delta	7.7	4.75	2.52
Rank	1	2	3



**Figure S1.** Digital images of dried-films containing ~23 wt% FNB concentration processed at different mixing conditions; F313, F321, and F223.