## Accepted Manuscript

Effect of freeze-dryer design on heat transfer variability investigated using a 3D mathematical model

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PII: S0022-3549(18)30204-1

DOI: 10.1016/j.xphs.2018.04.002

Reference: XPHS 1126

To appear in: Journal of Pharmaceutical Sciences

Received Date: 1 December 2017

Revised Date: 31 March 2018

Accepted Date: 3 April 2018

Please cite this article as: Scutellà B, Bourlés E, Plana-Fattori A, Fonseca F, Flick D, Trelea IC, Passot S, Effect of freeze-dryer design on heat transfer variability investigated using a 3D mathematical model, *Journal of Pharmaceutical Sciences* (2018), doi: 10.1016/j.xphs.2018.04.002.

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## ACCEPTED MANUSCRIPT

1	Effect of freeze-dryer design on heat transfer variability investigated using
2	a 3D mathematical model
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