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

B. Scutellà, E. Bourlés, A. Plana-Fattori, F. Fonseca, D. Flick, I.C. Trelea, S. Passot

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3 4 5	Authors: B. Scutellà ^{1,2} , E. Bourlés ² , A. Plana-Fattori ³ , F. Fonseca ¹ , D. Flick ³ , I.C. Trelea ¹ , S. Passot ¹
6	¹ UMR GMPA, AgroParisTech, INRA, Université Paris Saclay, 78 850 Thiverval-Grignon,
7	France
8	² GSK Vaccines, Rixensart, Belgium
9	³ UMR Ingénierie Procédés Aliments, AgroParisTech, INRA, Université Paris-Saclay, 91300
10	Massy, France
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