## **Accepted Manuscript**

Extreme thermal stability of *Lactococcus lactis* bacteriophages: Evaluation of phage inactivation in a pilot-plant pasteurizer

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PII: S0023-6438(18)30195-6

DOI: 10.1016/j.lwt.2018.02.056

Reference: YFSTL 6911

To appear in: LWT - Food Science and Technology

Received Date: 25 August 2017

Revised Date: 15 February 2018 Accepted Date: 19 February 2018

Please cite this article as: Wagner, N., Matzen, Sö., Walte, H.-G., Neve, H., Franz, C.M.A.P., Heller, K.J., Hammer, P., Extreme thermal stability of *Lactococcus lactis* bacteriophages: Evaluation of phage inactivation in a pilot-plant pasteurizer, *LWT - Food Science and Technology* (2018), doi: 10.1016/j.lwt.2018.02.056.

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## ACCEPTED MANUSCRIPT

1 Extreme thermal stability of *Lactococcus lactis* bacteriophages: evaluation of phage 2 inactivation in a pilot-plant pasteurizer 3 Natalia Wagner<sup>a</sup>, Sönke Matzen<sup>b</sup>, Hans-Georg Walte<sup>b</sup>, Horst Neve<sup>a</sup>, Charles M. A. P. Franz<sup>a</sup>, 4 Knut J. Heller<sup>a</sup>, Philipp Hammer<sup>b</sup> 5 <sup>a</sup>Max Rubner-Institut, Federal Research Institute of Nutrition and Food, Department of 6 Microbiology and Biotechnology, Hermann-Weigmann-Str. 1, D-24103 Kiel, Germany 7 8 <sup>b</sup>Max Rubner-Institut, Federal Research Institute of Nutrition and Food, Department of Safety 9 and Quality of Milk and Fish Products, Hermann-Weigmann-Str. 1, D-24103 Kiel, Germany 10 <sup>1</sup>Corresponding author: Tel.: +49 431 609 2372 11 12 E-mail address: natalia.wagner@mri.bund.de 13 14 Postal address: 15 Max Rubner-Institut Department of Microbiology and Biotechnology 16 17 Hermann-Weigmann-Str. 1 D-24103 Kiel, Germany 18

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