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Lactobacillus plantarum LUHS135 and paracasei LUHS244 as functional starter cultures for the food fermentation industry: Characterisation, mycotoxin-reducing properties, optimisation of biomass growth and sustainable encapsulation by using dairy by-products

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Lactobacillus plantarum LUHS135 and paracasei LUHS244 as functional starter cultures for the food 1 fermentation industry: characterisation, mycotoxin-reducing properties, optimisation of biomass 2 growth and sustainable encapsulation by using dairy by-products 3 4 Running Head: Lactobacillus properties and encapsulation 5 6 Elena Bartkiene ^a, Paulina Zavistanaviciute ^a, Vita Lele ^a, Modestas Ruzauskas ^a, Vadims Bartkevics ^{b,c}, Jurga 7 Bernatoniene ^a, Pasquale Gallo ^d, Gian Carlo Tenore ^e, Antonello Santini ^e 8 9 10 ^aLithuanian University of Health Sciences, Department of Food Safety and Quality, Tilzes g. 18, 47181 11 12 Kaunas, Lithuania ^bUniversity of Latvia, Department of Chemistry, Kr. Valdemara iela 48, Riga, Latvia 13 ^cInstitute of Food Safety, Animal Health and Environment, Lejupes iela 3, Riga, Latvia 14 ^dIstituto Zooprofilattico Sperimentale del Mezzogiorno, Department of Chemistry, Portici, Napoli, Italy 15 ^eUniversity of Napoli Federico II, Via D. Montesano 49, 80131 Napoli, Italy 16 17 **Corresponding author:** Elena Bartkiene, e-mail address: elena.bartkiene@lsmuni.lt; tel.: +370 60135837; 18 fax: +370 37 300152. 19 20 Co-authors: paulina.zavistanaviciute@lsmuni.lt (P. Zavistanaviciute); vita.lele@lsmuni.lt (V. Lele); 21 modestas.ruzauskas@lsmuni.lt Ruzauskas); vadims.bartkevics@bior.lv (M. (V. Bartkevics); 22 jurga.bernatoniene@lsmuni.lt (J. Bernatoniene); pasquale.gallo@cert.izsmportici.it (P. Gallo); 23 giancarlo.tenore@unina.it (G. Tenore); (antonello.santini@unina.it (A. Santini) 24

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