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Dynamics of compost microbiota during the cultivation of *Agaricus bisporus* in the presence of *Bacillus velezensis* QST713 as biocontrol agent against *Trichoderma aggressivum*

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Running title: Impact of strain QST713 on *Agaricus* compost microbiota

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ABSTRACT

The edible button mushroom *Agaricus bisporus* is cultivated worldwide and appreciated for its organoleptic and nutritive qualities. It is nowadays cultivated at industrial scale in climatic units under controlled environmental conditions. Various organisms can trigger microbiological-induced losses, including *Trichoderma aggressivum* f. *europaeum*, the fungal agent of green-mould disease, which hinders the growth of *A. bisporus* mycelium. In France, the biocontrol agent *Bacillus velezensis* QST713 is used to control *T. aggressivum* and prevent production losses. Here, we evaluated the impact of *B. velezensis* QST713 on the

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