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Exogenous Ribonuclease in the Improvement of Lactobacillus Biological Properties

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Abstract

The influence of exogenous RNAase on the dynamics of the acid formation by the industrial strain 8R-A3 of *Lactobacillus plantarum*, its antibiotic sensitivity and antagonistic activity was studied. In the presence of the RNAase growth stimulating dose both a decrease of the culture lag-phase and a more intensive accumulation of lactic acid in the incubation medium resulting in an increase of the *Lactobacillus* antagonistic activity were observed. It was shown that RNAase increased the *Lactobacillus* stability to tetracycline and erythromycin by 32 to 57 per cent as compared to the control.

Keywords

Exogenous ribonuclease, *Lactobacillus*