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Concentration dependence of the effect of bacillus intermedium ribonuclease on the yeast saccharomyces cerevisiae

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Abstract

-Bacillus intermedium RNase added at a low concentration (0.001 jg/ml) stimulated yeast growth, while a high RNase concentration (1500 jg/ml) was inhibitory to yeast growth. The inhibitory effect of RNase was transient and correlated with the increase in the trehalose pool of yeast cells. The number of unbudded cells in the yeast population tended to decrease under the action of low concentrations of bacillar RNase and to increase under the action of high concentrations of this enzyme.

Keywords

Ribonuclease, Stress, Trehalose