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## Activity dynamics of potential marker enzymes of *Serratia marcescens* cytoplasm and periplasm

Bogomol'naya L., Filimonova M.

Kazan Federal University, 420008, Kremlevskaya 18, Kazan, Russia

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### Abstract

Activity dynamics of glucose-6-phosphate dehydrogenase, alkaline phosphatase,  $\beta$ -galactosidase and  $\beta$ -lactamase in the course of growth and development of Gram-negative bacteria *Serratia marcescens* was studied. Glucose-6-phosphate dehydrogenase can serve as a marker of cytoplasm and be also used as a marker of plasma membrane continuity. Alkaline phosphatase is a marker of periplasm. Glucose-6-phosphate dehydrogenase,  $\beta$ -lactamase and  $\beta$ -galactosidase can be additionally used as markers of the outer membrane continuity of microbial cells. © 2010 Pleiades Publishing, Ltd.

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