

REGULARITIES OF BIOSYNTHESIS OF CYTOTOXIC LECTINES BY *BACILLUS SUBTILIS* B-7025 CULTURE, GROWING ON DIFFERENT MEDIA

**G.P. Potebnya, O.A. Tanasiyenko,
N.L. Cheremshenko, V.A. Shlyahovenko,
E.A. Kovalenko, E.I. Getman**

Summary. In order to increase biosynthetic activity of *B. subtilis* B-7025 culture (a producer of cytotoxic substances) we used cheap, completely prepared and well-balanced media. The culture of *B. subtilis* B-7025 produce different bioactive substances, depending upon a composition of cultural medium. We established that on modified Gauze medium the microorganism synthesized the extracellular lectines, which had been cytotoxic for tumor cells. Being cultivated on bran medium the bacterial culture produced mainly proteolysis enzymes, active against tumor cells.

Key words: *B. subtilis* B-7025, cultural medium, tumor cells, agglutination, lysis.