

The invention relates to biotechnology, in particular to a process for preserving the *Saccharomyces cerevisiae* CNMN-Y-21 yeast strain, which can be used for long-term storage of microorganisms and their use as sources of biologically active substances.

The process, according to the invention, comprises cultivation of *Saccharomyces cerevisiae* CNMN-Y-21 yeast strain on a nutrient medium for 72 hours at a temperature of 26-28°C, suspension of the culture to a titer of 10^5 - 10^6 ml⁻¹ in a medium consisting of skim milk and a 5-10% vol. solution comprising 10 mg/ml of extract, obtained from spirulina biomass by sequential extraction with 20-30% alcoholic solution and 0.45% NaOH solution, rapid freezing of the suspension at a temperature of -20°C, lyophilization and storage at a temperature of 4°C.

The technical result of the invention consists in increasing the protein and carbohydrate content in the *Saccharomyces cerevisiae* CNMN-Y-21 yeast biomass after one year of storage in a lyophilized state by 35.31-37.03% and 35.62-39.56%, respectively.

Claims: 1