

s 2018 0109

The invention relates to biotechnology, in particular to a process for preserving the *Saccharomyces cerevisiae* CNMN-Y-20 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, consists in cultivating the *Saccharomyces cerevisiae* CNMN-Y-20 yeast strain on a nutrient medium for 72 hours at a temperature of 26...28°C, suspending the culture in a medium consisting of skim milk and 5...10% vol. solution comprising 10 mg/ml of extract of sulfated polysaccharides, obtained from spirulina biomass, to a titer of $10^5...10^6$ ml⁻¹, rapid freezing 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 content in the *Saccharomyces cerevisiae* CNMN-Y-20 yeast biomass after one year of storage in a lyophilized state by 25.32...26.62%.

Claims: 1