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The invention relates to biotechnology, in particular to a process for cultivation of *Rhodotorula gracilis* yeast and can be used to produce antioxidant enzymes superoxide dismutase and catalase with high potential for use in the microbiological, pharmaceutical and cosmetic industries.

The method, according to the invention, comprises production of a yeast suspension of *Rhodotorula gracilis* CNMN-Y-03 strain by cultivation for 24 hours on YPD medium, inoculation of the suspension at a concentration of 5% vol. on YPD medium with addition of Ag nanoparticles with a size of 5 nm at a concentration of 10.0...5.0 mg/L and cultivation at a temperature of 25...28°C with continuous stirring at 180...200 rpm for 72 hours.

Claims: 1