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The invention relates to biotechnology, in particular to a process for cultivation of *Rhodotorula gracilis* yeasts, which can be applied to produce proteins used in the microbiological, food, pharmaceutical and cosmetic industries.

The process, according to the invention, consists in preparing a *Rhodotorula gracilis* CNMN-Y-30 or *Rhodotorula gracilis* CNMN-Y-03 yeast suspension by cultivating for 24 hours on YPD medium, inoculating the suspension in a concentration of 5% vol. on YPD medium with the addition of 50 nm ZnO nanoparticles in a concentration of 20.0 mg/L and cultivating at 25...28°C with continuous stirring at 180...200 rpm for 72 hours.

The result of the invention consists in increasing the protein content in the yeast biomass.

Claims: 1