

The invention relates to biotechnology, namely to a process for submerged cultivation of *Rhizopus arrhizus* CNMN FD 03 fungus strain, producer of lipases and can be used in the microbiological industry for producing lipolytic enzymes with wide application in the food industry, production and processing of fats and vegetable oils, in medicine in as a therapeutic and diagnostic agent.

The process, according to the invention, provides for the production of a spore suspension of a strain grown for 30 days on a malt-agar medium, inoculation of the suspension in an amount of 5vol.% into a nutrient aqueous medium containing, g/L: soy flour - 35.0,  $(\text{NH}_4)_2\text{SO}_4$  - 1.0,  $\text{KH}_2\text{PO}_4$  - 5.0, with simultaneous introduction of 0.005 g/L of  $[\text{SrL}_3][\text{Co}(\text{NCS})_4]$ , where L - dimethylpyridine-2,6-dicarboxylate, and cultivation with constant stirring at 180-200 rpm for 24 hours, at a temperature of 28-30°C.

The result of the invention consists in increasing the biosynthesis of lipolytic enzymes and reducing the duration of cultivation of the strain by 24 hours.

Claims: 1