The invention relates to biotechnology, and in particular 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 obtaining lipolytic enzymes with wide application in the food industry, production and processing of fats and vegetable oils, in medicine as a therapeutic and diagnostic agent.

The process, according to the invention, provides for the preparation of a spore suspension of the strain grown for 30 days on a malt-agar medium, inoculation of the suspension in an amount of 5 vol.% in a nutrient aqueous medium containing, g/L: soy flour -35.0, $(NH_4)_2SO_4 - 1.0$, $KH_2PO_4 - 5.0$, with the simultaneous addition of 0.010 g/L of $[Ca(L)_3][Co(NCS)_4]$, where L – dimethylpyridine-2,6-dicarboxylate, and cultivation with continuous stirring at 180-200 rpm at the temperature of 28-30°C for 24 hours.

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