

Wastes from the production of biodiesel as a substrate for cultivation of *Mortierella alpina* fungi

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Abstract

Was studied biochemical behavior (biomass production, accumulation and fatty acid composition of lipids) two strains of mycelial fungi *Mortierella alpina* LPM-301 and *Mortierella alpina* NRRL-A-10995, which are highly active producers of arachidonic acid, in the cultivation of their on media containing wastes from the production of biodiesel. Set the optimal concentration of the waste biodiesel for the synthesis of arachidonic acid these strains (5 g/l). If the concentration of the waste biodiesel in the environment discovered the inverse correlation between the content of lipids and the share of AK.