

The study of arachidonic acid synthesis by *Mortierella alpina* fungi on media containing glycerol as the sole source of carbon and energy

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Abstract

The biochemical behavior (biomass production, accumulation of lipids, fatty acid composition of fungal oil) of two strains of filamentous fungi *Mortierella alpina* LPM-301 and *Mortierella alpina* NRRL-A-10995, which are highly active producers of arachidonic acid, was studied when these microorganisms were cultivated in media containing glycerol. In the transition from pure glycerol to waste biodiesel observed decrease of arachidonic acid in lipids of fungi.