Information on maintenance and cultivation of the fungal strains *Mucor circinelloides* and *Mortierella alpina* for lipid production.

**FTIR Spectroscopy for Evaluation and Monitoring of Lipid Extraction Efficiency for Oleaginous Fungi**

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Cultivation Conditions

*Mortierella alpina* was maintained on potato dextrose agar (PDA, VWR Chemicals Prolabo, Leuven) at 4 °C with sub culturing every two months (7 days, 28 °C). Inoculum of *M.alpina* was prepared by suspending the mycelia from one freshly grown agar plate in physiological salt solution (0.9 % NaCl). Spores of *Mucor circinelloides* were maintained in glycerol stocks at -80 °C. Fresh spore suspension of *M.circinelloides* was prepared by inoculating malt extract agar (MEA, Merck, Germany) with 3 x 10 µL of the glycerol stock, incubating at 28 °C for 7 days and suspending the spores in 10 mL physiological salt solution.

Fungal strains were cultured in a lipid-producing medium containing (gL⁻¹): glucose 80, yeast extract 3, MgSO₄·7H₂O 1.88, KH₂PO₄ 8.75, Na₂HPO₄ 1.25, CaCl₂·2H₂O 0.12 with the addition of 1000X Trace Element Solution (TES: CoSO₄·7H₂O 0.1, CuSO₄·5H₂O 0.1, FeCl₃·6H₂O 8.0, MnSO₄·7H₂O 0.01, ZnSO₄·7H₂O 1.0). Fungal strains were also cultivated in non-lipid producing media, malt extract broth for *M.circinelloides* (MEB, Merck Millipore, Germany) and potato extract broth for *M.alpina* (Sigma-Aldrich, USA). Cultivations were carried out in 1L shake flasks containing 200 mL medium at 28°C with 120 rpm shaking. Media was inoculated with 200 µL spore suspension of *M.circinelloides* (2 x 10⁵ spores/mL, final) and 1 mL mycelium suspension of *M.alpina*. 