

METHOD FOR THE IMPROVED SEPARATION OF A HYDROPHOBIC ORGANIC SOLUTION
FROM AN AQUEOUS CULTURE MEDIUM

Abstract

The invention relates to a method for the improved separation of a hydrophobic organic
5 solution from an aqueous culture medium, comprising the steps of providing an aqueous culture
medium comprising a metabolically active cell, contacting the aqueous culture medium with a
hydrophobic organic solution, and separating the hydrophobic organic solution from the
aqueous culture medium, wherein the cell has an activity of at least one enzyme that is reduced
10 compared to the wild type of the cell, which enzyme catalyzes one of the reactions of the β
oxidation of fatty acids. The invention further relates to the use of a metabolically active cell
having an activity of an enzyme that is reduced compared to the wild type of said cell, which
enzyme catalyzes one of the reactions of the β oxidation of fatty acids, preferably an enzyme
selected from the group comprising FadA, FadB, FadD, FadL, and FadE and variants thereof,
15 preferably FadE or a variant thereof, for the improved separation of a hydrophobic organic
solution from an aqueous culture medium comprising the metabolically active cell.

(No Suitable Figure)