

Title (en)
LARGE SCALE PRODUCTION OF OLIVETOL, OLIVETOLIC ACID AND OTHER ALKYL RESORCINOLS BY FERMENTATION

Title (de)
FERMENTATIVE HERSTELLUNG VON OLIVETOL, OLIVETOLSÄURE UND ANDEREN ALKYLRESORZINEN IM GROSSMASSSTAB

Title (fr)
PRODUCTION À GRANDE ÉCHELLE D'OLIVÉTOLE, D'ACIDE OLIVÉTOLE ET D'AUTRES ALKYLRESORCINOLS PAR FERMENTATION

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Application
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Abstract (en)
[origin: WO2021225952A1] Provided herein are processes, such as commercially viable processes, of producing alkyl resorcinols, such as olivetol and olivetolic acid, and analogs of each thereof. Certain of these processes utilize a recombinant, heterologous host microorganism. Certain of the heterologous microorganisms include a Cannabis sativa olivetol synthase (which is a tetraketide synthase, csOLS). Certain of the heterologous microorganisms include a Cannabis sativa olivetolic acid cyclase (csOAC). Certain of the heterologous microorganisms include a Cannabis sativa acyl activating enzyme (csAAE), such as, without limitation, csAAE1. In certain of these processes, glucose is fermented. In certain of these processes, the fermentation further comprises a carboxylic acid, RCO₂H where R is defined as herein, or a salt thereof. Certain of these processes provide olivetol and olivetolic acid in a combined amount of at least 3 g/liter.

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