

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property
Organization
International Bureau

(43) International Publication Date
01 May 2025 (01.05.2025)



(10) International Publication Number
WO 2025/087760 A1

(51) International Patent Classification:

C12P 7/40 (2006.01) C12R 1/145 (2006.01)
C07C 51/48 (2006.01) C12P 7/6409 (2022.01)
B01D 11/04 (2006.01)

SI, SK, SM, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN,
GQ, GW, KM, ML, MR, NE, SN, TD, TG).

Declarations under Rule 4.17:

— as to applicant's entitlement to apply for and be granted a
patent (Rule 4.17(ii))

(21) International Application Number:

PCT/EP2024/079156

(22) International Filing Date:

16 October 2024 (16.10.2024)

Published:

— with international search report (Art. 21(3))

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

23205973.3 26 October 2023 (26.10.2023) EP

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(81) Designated States (unless otherwise indicated, for every
kind of national protection available): AE, AG, AL, AM,
AO, AT, AU, AZ, BA, BB, BG, BH, BN, BR, BW, BY, BZ,
CA, CH, CL, CN, CO, CR, CU, CV, CZ, DE, DJ, DK, DM,
DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT,
HN, HR, HU, ID, IL, IN, IQ, IR, IS, IT, JM, JO, JP, KE, KG,
KH, KN, KP, KR, KW, KZ, LA, LC, LK, LR, LS, LU, LY,
MA, MD, MG, MK, MN, MU, MW, MX, MY, MZ, NA,
NG, NI, NO, NZ, OM, PA, PE, PG, PH, PL, PT, QA, RO,
RS, RU, RW, SA, SC, SD, SE, SG, SK, SL, ST, SV, SY, TH,
TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, WS,
ZA, ZM, ZW.

(84) Designated States (unless otherwise indicated, for every
kind of regional protection available): ARIPO (BW, CV,
GH, GM, KE, LR, LS, MW, MZ, NA, RW, SC, SD, SL, ST,
SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ,
RU, TJ, TM), European (AL, AT, BE, BG, CH, CY, CZ,
DE, DK, EE, ES, FI, FR, GB, GR, HR, HU, IE, IS, IT, LT,
LU, LV, MC, ME, MK, MT, NL, NO, PL, PT, RO, RS, SE,

(54) Title: BIOTECHNOLOGICAL PRODUCTION OF OCTANOIC ACID

(57) Abstract: The present invention relates to a method of producing octanoic acid and/or salts thereof, the method comprising: a) contacting a carbon substrate comprising ethanol or a mixture of ethanol and acetate to the aqueous medium comprising Clostridium kluyveri; b) holding the aqueous medium for a suitable period of time until the Clostridium kluyveri produces a significant amount of octanoic acid and/or salts thereof; c) separating the octanoic acid and/or salts thereof from the aqueous medium using an extraction medium; and d) repeating step (c) continuously as the octanoic acid and/or salts thereof is being formed wherein the extraction medium comprises: - at least one trialkyl-phosphine-oxide, and at least one alkane.



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