

(19) World Intellectual Property
Organization
International Bureau



(10) International Publication Number

WO 2023/154910 A9

(43) International Publication Date
17 August 2023 (17.08.2023)

WIPO | PCT

(51) International Patent Classification:

C12N 5/00 (2006.01) C12N 5/07 (2010.01)
C12N 15/52 (2006.01) G01J 3/44 (2006.01)

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(21) International Application Number:

PCT/US2023/062467

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(22) International Filing Date:

13 February 2023 (13.02.2023)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

17/671,029 14 February 2022 (14.02.2022) US

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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, 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,

(54) Title: CELL CULTURE METHODS

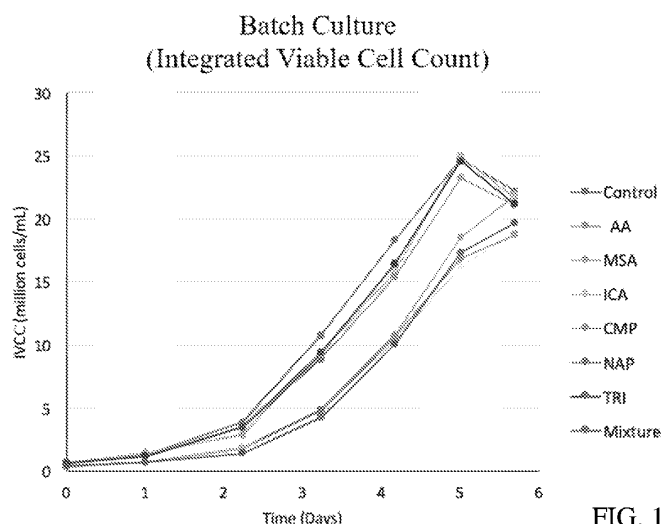


FIG. 1

(57) Abstract: A method of cell culture includes (i) culturing cells in a cell culture medium, and (ii) maintaining at least one metabolite below an inhibitory concentration in the cell culture medium for the at least one metabolite, wherein the at least one metabolite is aconitic acid (AA), leucic acid (HICA), cytidine monophosphate (CMP), methylsuccinic acid (MSA), trigonelline (TRI), N-acetylputrescine (NAP), or a combination thereof, and wherein the enzyme comprises ADH5, BCAT1, CAT, GOT1, HADHB, H0GA1, SLC35A1, or a combination thereof.

[Continued on next page]

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, 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))*
- *as to the applicant's entitlement to claim the priority of the earlier application (Rule 4.17(iii))*

Published:

- *with international search report (Art. 21(3))*
- *with sequence listing part of description (Rule 5.2(a))*

(88) Date of publication of the international search report:

05 October 2023 (05.10.2023)

(48) Date of publication of this corrected version:

07 December 2023 (07.12.2023)

(15) Information about Correction:

see Notice of 07 December 2023 (07.12.2023)