



(51) International Patent Classification:
B01L 3/00 (2006.01)

(21) International Application Number:
PCT/EP2013/077297

(22) International Filing Date:
19 December 2013 (19.12.2013)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
12198144.3 19 December 2012 (19.12.2012) EP

(71) Applicant: **MAX-PLANCK-GESELLSCHAFT ZUR FÖRDERUNG DER WISSENSCHAFTEN E.V.**
[DE/DE]; Hofgartenstr. 8, 80539 München (DE).

(72) Inventors: **KULAK, Nils A.**; Obere Zugspitzstr. 10, 82131 Gauting (DE). **MANN, Matthias**; Bergstr. 88, 82131 Stockdorf (DE). **AZIMIFAR, Seyed Babak**; Waldklausenweg 3, 81377 München (DE). **NAGARAJ, Nagarjuna**; Engadiner Str. 2, 81475 München (DE).

(74) Agent: **VOSSIUS & PARTNER**; Siebertstrasse 4, 81675 München (DE).

(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, CZ, DE, DK, DM, DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IR, IS, JP, KE, KG, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LY, MA, MD, ME, 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, SM, ST, SV, SY, TH, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW.

(84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LR, LS, MW, MZ, NA, RW, SD, SL, 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, 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).

Published:

— without international search report and to be republished upon receipt of that report (Rule 48.2(g))

(54) Title: REACTION VESSEL FOR SAMPLE PREPARATION

(57) Abstract: The present invention relates to sample preparation container for purification and/or enrichment of bio-organic compounds from cellular material, viruses and/or sub- components of said cellular material and/or viruses, the container comprising a reaction chamber and a chromatography medium; wherein said reaction chamber is for holding said cellular material, viruses and/or sub-components of said cellular material and/or viruses and is configured such that at least one of the following reactions can be performed therein: lysis, e.g. by sonication and/or boiling; chromatographic purification; reduction; alkylation; and enzymatic reactions such as proteolysis; wherein said chromatography medium is configured to purify and/or enrich said bio-organic compounds; wherein (a) said chromatography medium is located at a wall of said reaction chamber, and said wall is closed or sealed and configured to be opened for obtaining purified and/or enriched bio-organic compounds; or (b) said sample preparation container further comprises a receiving chamber for receiving said bio-organic compounds, said receiving chamber being adjacent to said chromatography medium such that said chromatography medium separates said reaction chamber from said receiving chamber, and the outer face of said receiving chamber is closed and configured to be opened for obtaining purified and/or enriched bio-organic compounds.

