

(19) World Intellectual Property
Organization
International Bureau



(43) International Publication Date
18 November 2004 (18.11.2004)

PCT

(10) International Publication Number
WO 2004/099384 A3

(51) International Patent Classification⁷: **C12M 1/40**,
3/00, C12N 1/06

MEHIGH, Richard, J. [US/US]; 3042 Cambridge Point,
St. Louis, MO 63129 (US). **JENKINS, Elizabeth, A.**
[US/US]; 350 Pheasant Run, Sherman, IL 62684 (US).

(21) International Application Number:
PCT/US2004/013767

(74) Agents: **HEJLEK, Edward, J.** et al.; Senniger, Powers,
Leavitt & Roedel, #1 Metropolitan Square, 16th Floor, St.
Louis, MO 63102 (US).

(22) International Filing Date: 3 May 2004 (03.05.2004)

(25) Filing Language: English

(81) Designated States (*unless otherwise indicated, for every
kind of national protection available*): AE, AG, AL, AM,
AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN,
CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI,
GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE,
KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD,
MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG,
PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM,
TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM,
ZW.

(26) Publication Language: English

(30) Priority Data:
60/467,679 2 May 2003 (02.05.2003) US

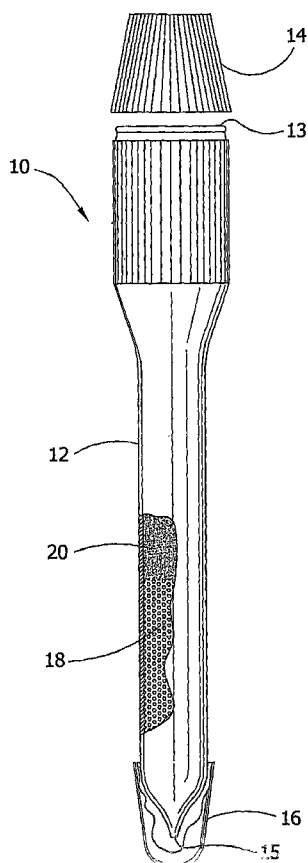
(71) Applicant (*for all designated States except US*): **SIGMA-
ALDRICH CO.** [US/US]; 3050 Spruce Street, St. Louis,
MO 63103 (US).

(72) Inventors; and

(75) Inventors/Applicants (*for US only*): **KAPPEL, William,
K.** [US/US]; P.O. Box 14508, St. Louis, MO 63178 (US).

(84) Designated States (*unless otherwise indicated, for every
kind of regional protection available*): ARIPO (BW, GH,
[Continued on next page]

(54) Title: SOLID PHASE CELL LYSIS AND CAPTURE PLATFORM



(57) Abstract: The present invention provides containers, processes, and kits relating to the extraction or the extraction and isolation of a cellular component from a host cell. More specifically, the containers of the invention comprise a mouth; an interior surface comprising a sidewall formation and a bottom; a volume; a lytic reagent; and in some instances, a supported capture ligand. Methods and kits for the extraction or the extraction and isolation of a cellular component from a host cell using the containers described herein are also provided.

WO 2004/099384 A3



GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

— *before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments*

(88) Date of publication of the international search report:
24 March 2005

Published:

— *with international search report*

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.