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

(19) World Intellectual Property Organization
International Bureau

(43) International Publication Date
8 October 2009 (08.10.2009)

PCT

(10) International Publication Number
WO 2009/121726 A1

(51) International Patent Classification:
C12Q 1/06 (2006.01) *G01N 33/50* (2006.01)

(21) International Application Number:
PCT/EP2009/053295

(22) International Filing Date:
20 March 2009 (20.03.2009)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
0806135.0 4 April 2008 (04.04.2008) GB
0900850.9 20 January 2009 (20.01.2009) GB

(71) Applicants *(for all designated States except US)*: **BASF SE** [DE/DE]; 67056 Ludwigshafen (DE). **CENTRE NATIONAL DE LA RECHERCHE SCIENTIFIQUE (CNRS)** [FR/FR]; 3 rue Michel-Ange, Cedex 16, F-75794 Paris (FR).

(72) Inventors; and

(75) Inventors/Applicants *(for US only)*: **FOVET, Yannick** [FR/FR]; 55 rue du commerce, F-92700 Colombes (FR). **DUCRET, Adrien** [FR/FR]; 5 ter rue borde, F-13008 Marseille (FR). **DUKAN, Sam** [FR/FR]; 6 rue Esperandieu, F-13004 Marseille (FR).

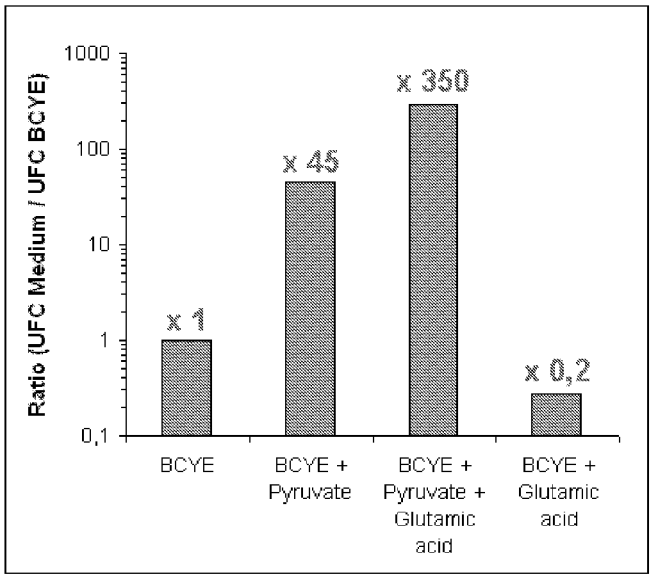
(81) Designated States *(unless otherwise indicated, for every kind of national protection available)*: AE, AG, AL, AM, AO, AT, AU, AZ, BA, BB, BG, BH, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, 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, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, ST, SV, SY, 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, 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, HR, HU, IE, IS, IT, LT, LU, LV, MC, MK, MT, NL, NO, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

[Continued on next page]

(54) Title: DETECTION AND ENUMERATION OF MICROORGANISMS

Figure 2



(57) Abstract: A method for detecting and enumerating viable microorganisms in a sample suspected of containing said microorganisms (1) contacting said microorganisms of said sample with at least one repair compound and a growth medium, and (2) incubating the product of steps (1), and (3) detecting and quantifying said viable microorganisms, in which the microorganisms are of the species Legionella pneumophila, and in which the repair compound directly or indirectly causes an effect on the metabolism to reduce the oxidative stress of the microorganism. The invention also includes a kit for more accurately detecting and enumerating viable microorganisms of the species *Legionella pneumophila* in a sample suspected of containing said microorganisms.

WO 2009/121726 A1

Published:

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