

(12) International Application Status Report

Received at International Bureau: 30 November 2016 (30.11.2016)

Information valid as of: 17 April 2018 (17.04.2018)

Report generated on: 13 November 2019 (13.11.2019)

(10) Publication number:

WO2017/093147

(43) Publication date:

08 June 2017 (08.06.2017)

(26) Publication language:

English (EN)

(21) Application Number:

PCT/EP2016/078898

(22) Filing Date:

25 November 2016 (25.11.2016)

(25) Filing language:

English (EN)

(31) Priority number(s):

102015000078236 (IT)

(31) Priority date(s):

30 November 2015 (30.11.2015)

(31) Priority status:

Priority document received (in compliance with PCT Rule 17.1)

(51) International Patent Classification:

A61L 27/36 (2006.01)

(71) Applicant(s):

BIOCOMPATIBILITY INNOVATION SRL [IT/IT]; Via Enrico Petrella, 4 35132 Padova (IT) *(for all designated states)*

(72) Inventor(s):

NASO, Filippo; Via Palugana Nord, 55/b 35045 Ospedaletto Euganeo (IT)

GANDAGLIA, Alessandro; Via Como, 8 35030 Rubano (IT)

(74) Agent(s):

RIGAMONTI, Dorotea; c/o JACOBACCI & PARTNERS S.p.A. Via Senato, 8 I-20121 MILANO (IT)

(54) Title (EN): METHOD FOR INACTIVATING XENOANTIGENS IN BIOLOGICAL TISSUES

(54) Title (FR): PROCÉDÉ D'INACTIVATION DE HÉTÉRO-ANTIGÈNES DANS DES TISSUS BIOLOGIQUES

(57) Abstract:

(EN): A method for inactivating xenoantigens in biological tissues, particularly in tissues that can be used to manufacture bioprosthetic substitutes and/or in bioprosthetic substitutes that are already prepared and intended for human or veterinary clinical use. Such method entails the following steps: - providing a solution based on phenolic compounds, polyphenolic compounds or derivatives thereof, for the inactivation of at least part of the xenogeneic epitopes from such tissues; - incubating the samples to be treated in the various solutions based on phenols/polyphenols in controlled conditions; - subjecting the treated tissues to a series of washes.

(FR): L'invention concerne un procédé qui permet d'inactiver des hétéro-antigènes dans des tissus biologiques, en particulier dans des tissus qui peuvent être utilisés pour fabriquer des substituts bio-prothétiques et/ou dans des substituts bio-prothétiques qui sont déjà préparés et conçus pour une utilisation clinique, humaine ou vétérinaire. Un tel procédé consiste : - à fournir une solution à base de composés phénoliques, de composés polyphénoliques ou de dérivés de ceux-ci, pour l'inactivation d'au moins une partie des épitopes hétéro-géniques de tels tissus ; - à incuber les échantillons à traiter dans de diverses solutions à base de phénols/ polyphénols dans des conditions contrôlées ; - à soumettre les tissus traités à une série de lavages.

International search report:

Received at International Bureau: 20 February 2017 (20.02.2017) [EP]

International Report on Patentability (IPRP) Chapter II of the PCT:

Not available

(81) Designated States:

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, DJ, 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, KW,

KZ, LA, LC, LK, LR, LS, 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

European Patent Office (EPO) : 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

African Intellectual Property Organization (OAPI) : BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, KM, ML, MR, NE, SN, TD, TG

African Regional Intellectual Property Organization (ARIPO) : BW, GH, GM, KE, LR, LS, MW, MZ, NA, RW, SD, SL, ST, SZ, TZ, UG, ZM, ZW

Eurasian Patent Organization (EAPO) : AM, AZ, BY, KG, KZ, RU, TJ, TM