(12) UK Patent Application (19) GB (11) 2542576 (13) A

(43) Date of Reproduction by UK Office 29.03.2017

(21) Application No: 1516796.8

(22) Date of Filing: 10.07.2015

Date Lodged: 22.09.2015

(30) Priority Data:
(31) 1412316.0 (32) 10.07.2014 (33) GB

(86) International Application Data:
PCT/GB2015/052006 En 10.07.2015

(87) International Publication Data:
WO2016/005768 En 14.01.2016

(71) Applicant(s):
Momentum Bioscience Limited
Unit 19 WillowBrook Technology Park,
Llandogo Road, St. Mellons, Cardiff, Wales, CF3 OEF,
United Kingdom

(72) Inventor(s):
Matthew Alun Crow
Helen Victoria Bennett
Daniel Stephen Wratting
William Henry Mullen

(74) Agent and/or Address for Service:
Boult Wade Tennant
Verulam Gardens, 70 Gray's Inn Road, LONDON,
WC1X 8BT, United Kingdom

(51) INT CL:
C12Q 1/04 (2006.01) *C12Q 1/06* (2006.01)
C12Q 1/44 (2006.01) *C12Q 1/68* (2006.01)

(56) Documents Cited:
WO 2013/103744 A1 WO 2011/130584 A1
WO 1990/006320 A1 US 5939262 A1
The journal of molecular diagnostics, vol.15, 2013, Zweitzig et al, "Feasibility of a novel approach for rapid detection of simulated blood stream infections via enzymatic template generation and amplification (ETGA)..." pages 319-330
Transfusion vol. 54, 2014, Zweitzig et al, "A novel approach for rapid detection of bacterially contaminated platelet concentrates..." pages 1642-1651
Nucleic acids research, vol40, 2012, Zweitzig et al, "Characterization of a novel DNA polymerase activity assay...", e109

(58) Field of Search:
Other: EPODOC, WPI

(54) Title of the Invention: **Method and kit of detecting the absence of micro-oranisms**
Abstract Title: **Method and kit of detecting the absence of micro-oranisms**

(57) Methods of detecting the absence or presence of a micro-organism in a sample comprising: contacting the sample with a nucleic acid molecule which acts as a substrate for nucleic acid modifying activity of the micro-organism in the sample, incubating the thus contacted sample under conditions suitable for nucleic acid modifying activity; and specifically determining the absence or presence of a modified nucleic acid molecule resulting from the action of the nucleic acid modifying activity on the substrate nucleic acid molecule to indicate the absence or presence of the micro-organism. Corresponding kits are also provided.

GB 2542576 A