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(54) Title: DETECTION OF VIABLE AGENTS

(57) Abstract: A quantitative PCR method has been developed for the simultaneous detection and quantitation of an agent in samples of biologically-derived materials. Unlike conventional quantitative PCR detection methods, this assay allows for the detection of viable agents.

INTERNATIONAL SEARCH REPORT

International application No.
PCT/US01/09666

A. CLASSIFICATION OF SUBJECT MATTER

IPC(7) :C12P 19/34; C07H 21/04

US CL :435/91.2, 91.21, 91.32; 536/23.1, 24.33

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

U.S. : 435/91.2, 91.21, 91.32; 536/23.1, 24.33

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

MEDLINE, GENESEQ, GENEMBL, CAPLUS, EMBASE, BIOSIS, SCISEARCH

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	DU et al. Efficient transduction of human neurons with an adeno-associated virus vector. Gene Therapy. March 1996, Vol. 3, No. 3, pages 254-261, especially Figure 4, page 257.	1, 2, 5, 6, 11, 12, 15
X	ERLANDSSON et al. Quantification of Bordetella pertussis in clinical samples by colorimetric detection fo competitive PCR products. APMIS. November 1998, Vol. 106, No. 11, pages 1041-1048, see entire document.	1, 2, 5, 6, 15
X	LIPSON et al. Cell culture-PCR technique for detection of infectious cytomegalovirus in peripheral blood. J. Clin. Microbiol. May 1995, Vol. 33, No. 5, pages 1411-1413, see entire document.	1, 2, 5, 6, 15

Further documents are listed in the continuation of Box C. See patent family annex.

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"A" document defining the general state of the art which is not considered to be of particular relevance	"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
"E" earlier document published on or after the international filing date	"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art
"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)	"&" document member of the same patent family
"O" document referring to an oral disclosure, use, exhibition or other means	
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International application No.

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C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	REYNOLDS et al. Detection of infectious enteroviruses by an integrated cell culture-PCR procedure. Appl. Environ. Microbiol., April 1996, Vol. 62, No. 4, 1424-1427, see entire document.	1-6, 15
X	TOWERS et al. One step screening of retroviral producer clones by real time quantitative PCR. J. Gene Med. September-October 1999, Vol. 1, No. 5, pages 352-359, see entire document.	1-7, 11, 12, 15