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(54) Title: METHODS AND KITS FOR EXTRACTION OF DNA

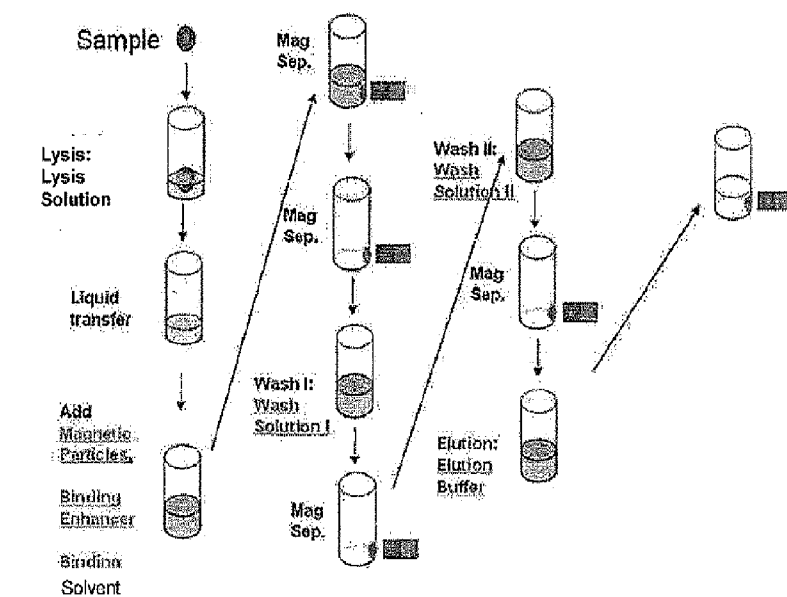


Fig1.

(57) Abstract: Methods and materials are disclosed for use in recovering a biopolymer from a solution. In particular, the invention provides methods for extraction and isolation of nucleic acids from biological materials. The nucleic acids can be separated by forming a stable complex with soluble polysaccharide polymers and magnetic particles, in the presence of detergents and solvent. When the particles are magnetically separated out of the solution, the nucleic acids are separated with them. The nucleic acids can subsequently be released and separated from the particles. The nucleic acid preparation is useful for achieving efficient and accurate results in downstream molecular techniques such as quantification, identification of the source of the nucleic acids, and genotyping.

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— *before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments (Rule 48.2(h))*

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INTERNATIONAL SEARCH REPORT

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A. CLASSIFICATION OF SUBJECT MATTER
INV. C12Q1/68

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)
C12Q

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 practical, search terms used)

EPO-Internal, BIOSIS, WPI Data, EMBASE, MEDLINE

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	KISHORE RAM ET AL: "Optimization of DNA extraction from low-yield and degraded samples using the BioRobot (R) EZ1 and BioRobot (R) M48" JOURNAL OF FORENSIC SCIENCES, vol. 51, no. 5, September 2006 (2006-09), pages 1055-1061, XP002541659 ISSN: 0022-1198 page 1057	1-27
X	WO 96/18731 A (DYNAL AS [NO]; DZIEGLEWSKA HANNA EVA [GB]; DEGGERDAL ARNE HELGE [NO];) 20 June 1996 (1996-06-20) the whole document	1-27
A	US 2004/137449 A1 (NARGESSI R D [US]) 15 July 2004 (2004-07-15)	1-27
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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
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Date of the actual completion of the international search 27 August 2009	Date of mailing of the international search report 14/09/2009
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Name and mailing address of the ISA/ European Patent Office, P.B. 5818 Patentlaan 2 NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Fax: (+31-70) 340-3016	Authorized officer Young, Craig
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INTERNATIONAL SEARCH REPORT

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.
P,X	<p>BREVENOV MAXIM G ET AL: "Developmental Validation of the PrepFiler (TM) Forensic DNA Extraction Kit for Extraction of Genomic DNA from Biological Samples" JOURNAL OF FORENSIC SCIENCES, vol. 54, no. 3, May 2009 (2009-05), pages 599-607, XP002541660 ISSN: 0022-1198 the whole document</p> <p align="center">-----</p>	1-27

INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No PCT/US2009/034143

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