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(54) Title: DETECTION OF POLYOMAVIRUS

(57) Abstract: Methods and kits are provided for testing for the presence or absence of a polyomavirus, such as BKV, in a sample. The methods and kits are useful for quantifying BKV and differentiating BKV from JCV.
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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22 April 2010
INTERNATIONAL SEARCH REPORT

A CLASSIFICATION OF SUBJECT MATTER

INV. C12Q1/70

According to International Patent Classification (IPC), the 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, WPI Data, Sequence Search, BIOSIS

C DOCUMENTS CONSIDERED TO BE RELEVANT

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<td>WO 2007/016275 A2 (FOCUS DIAGNOSTICS INC [US]; CHEN FAN [US]; KONG LILLY I [US]; CHEN JUL) 8 February 2007 (2007-02-08) page 2 - page 35; claims 1-33; sequence 40</td>
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<td>US 6 605 602 B1 (VATS ABHAY N [US]) 12 August 2003 (2003-08-12) column 1 - column 11 column 13 - column 14; sequence 3</td>
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Date of the actual completion of the international search

1 March 2010

Date of mailing of the international search report

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Name and mailing address of the ISA
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Authorized officer

Brochado Garganta, M
**INTERNATIONAL SEARCH REPORT**

**International application No**

PCT/US2009/001032

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<td>WO 2007016275 A2</td>
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<td>AU 2006275803 A1</td>
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<td></td>
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<td>US 2007031825 A1</td>
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<tr>
<td>WO 2006094238 A2</td>
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