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English

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Declaration under Rule 4.17:

— of inventorship (Rule 4.17(iv))

Published:

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10 August 2006

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: PORCINE REPRODUCTIVE AND RESPIRATORY SYNDROME VIRUS STRAINS AND COMPOSITIONS

(57) Abstract: This invention relates to two attenuated strains of porcine reproductive and respiratory syndrome virus (PRRSV) and immunogenic compositions comprising one or more strains of attenuated porcine reproductive and respiratory syndrome virus (PRRSV).



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INTERNATIONAL SEARCH REPORT

International application No
PCT/US2005/040366

A. CLASSIFICATION OF SUBJECT MATTER

INV. A61K39/12 C07K14/08 C12N7/04

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)

A61K C12N C07K

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)

EP0-Internal, BIOSIS, WPI Data

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	EP 0 835 930 A (AKZO NOBEL NV) 15 April 1998 (1998-04-15) the whole document -----	1-11
X	WO 02/07802 A (BOEHRINGER INGELHEIM VETMEDICAL GMBH) 19 September 2002 (2002-09-19) page 23, column 1 - column 6; claims 1-42 -----	1-11
X	EP 0 835 929 A (LABORATORIOS HIPRA) 15 April 1998 (1998-04-15) examples 1,2 -----	1-11
X	EP 0 676 467 A (AKZO NOBEL NV) 11 October 1995 (1995-10-11) the whole document -----	1-11
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☒ Further documents are listed in the continuation of Box C.

☒ See patent family annex.

* Special categories of cited documents :

- "A" document defining the general state of the art which is not considered to be of particular relevance
- "E" earlier document but published on or after the international filing date
- "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)
- "O" document referring to an oral disclosure, use, exhibition or other means
- "P" document published prior to the international filing date but later than the priority date claimed

- "T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- "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
- "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.
- "&" document member of the same patent family

Date of the actual completion of the international search

13 April 2006

Date of mailing of the international search report

12/05/2006

Name and mailing address of the ISA/

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INTERNATIONAL SEARCH REPORT

International application No
PCT/US2005/040366

C(Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT		
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	EP 1 350 840 A (ID-LELYSTAD) 8 October 2003 (2003-10-08) examples 1,3 -----	1-11
X	WO 00/65032 A (UNITED STATES DEPARTMENT OF AGRICULTURE) 2 November 2000 (2000-11-02) claims 1-46 -----	1-11
X	R ALLENDE ET AL: "MUTATIONS IN THE GENOME OF PRRSV RESPONSIBLE FOR THE ATTENUATEON PHENOTYPE" ARCH. VIROL., vol. 145, 2000, pages 1149-1161, XP000926571 page 1157, paragraph 2 -----	1-11
X	T. STORGAARD ET AL.: "EXAMINATION OF THE SELECTION PRESSURES ON A LIVE prrs VACCINE VIRUS" ARCH VIROL., vol. 144, 1999, pages 2389-2401, XP002376967 page 2398, paragraph 2 - page 2399 -----	1-11

INTERNATIONAL SEARCH REPORT

International application No.
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Box II Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)

This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. ☒ Claims Nos.: 8-11, 13
because they relate to subject matter not required to be searched by this Authority, namely:
Although claims 8-11 are directed to a method of treatment of the human/animal body, the search has been carried out and based on the alleged effects of the compound/composition.
2. ☒ Claims Nos.: 13
because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:
see FURTHER INFORMATION sheet PCT/ISA/210
3. ☐ Claims Nos.:
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

Box III Observations where unity of invention is lacking (Continuation of item 3 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows:

1. ☐ As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.
2. ☐ As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. ☐ As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:
4. ☐ No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

Remark on Protest

☐ The additional search fees were accompanied by the applicant's protest.

☐ No protest accompanied the payment of additional search fees.

INTERNATIONAL SEARCH REPORT

International Application No. PCT/US2005 /040366

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

Continuation of Box II.1

Although claims 8-11 are directed to a method of treatment of the human/animal body, the search has been carried out and based on the alleged effects of the compound/composition.

Continuation of Box II.2

Claims Nos.: 13

The claim is directed to a PRRS virus characterised by a Sequence ID. However, no such sequence has been filed, on paper or electronically.

The applicant's attention is drawn to the fact that claims relating to inventions in respect of which no international search report has been established need not be the subject of an international preliminary examination (Rule 66.1(e) PCT). The applicant is advised that the EPO policy when acting as an International Preliminary Examining Authority is normally not to carry out a preliminary examination on matter which has not been searched. This is the case irrespective of whether or not the claims are amended following receipt of the search report or during any Chapter II procedure. If the application proceeds into the regional phase before the EPO, the applicant is reminded that a search may be carried out during examination before the EPO (see EPO Guideline C-VI, 8.5), should the problems which led to the Article 17(2) declaration be overcome.

INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No
PCT/US2005/040366

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