

(19) World Intellectual Property Organization
International Bureau



(43) International Publication Date
6 July 2006 (06.07.2006)

PCT

(10) International Publication Number
WO 2006/072065 A3

(51) International Patent Classification:
C12Q 1/68 (2006.01)

(21) International Application Number:
PCT/US2005/047596

(22) International Filing Date:
29 December 2005 (29.12.2005)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
60/640,510 30 December 2004 (30.12.2004) US
11/034,797 13 January 2005 (13.01.2005) US
Not furnished 29 December 2005 (29.12.2005) US

(71) Applicant (*for all designated States except US*):
BOEHRINGER INGELHEIM VETMEDICA, INC.
[US/US]; 2621 N. Belt Hwy, St. J Oseph, MI 64506 (US).

(72) Inventors; and

(75) Inventors/Applicants (*for US only*): **EICHMEYER, Mark** [US/US]; 10908 NE 77th Lane, Bondurant, IA 50035 (US). **NITZEL, Greg** [US/US]; 45620 Finch St., Mattawan, MI 49071 (US). **SCHAEFFER, Merrill** [US/US]; 5302 Brookhaven Dr., St Joseph, MO 64507 (US).

(74) Agent: **TRUITT, Tracey, S.**; Hovey Williams LLP, 2405 Grand Boulevard, Suite 400, Kansas City, MI 64108 (US).

(81) Designated States (*unless otherwise indicated, for every kind of national protection available*): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, LY, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

(84) Designated States (*unless otherwise indicated, for every kind of regional protection available*): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

- *with international search report*
- *before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments*

(88) Date of publication of the international search report:
7 December 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: PCV2 IMMUNOGENIC COMPOSITIONS AND METHODS OF PRODUCING SUCH COMPOSITIONS

(57) Abstract: An improved method for recovering the protein expressed by open reading frame (2) from porcine circovirus type (2) is provided. The method generally involves the steps of transfecting recombinant virus containing open reading frame (2) coding sequences into cells contained in growth media, causing the virus to express open reading frame (2), and recovering the expressed protein in the supernate. This recovery should take place beginning approximately (5) days after infection of the cells in order to permit sufficient quantities of recombinant protein to be expressed and secreted from the cell into the growth media. Such methods avoid costly and time consuming extraction procedures required to separate and recover the recombinant protein from within the cells.



WO 2006/072065 A3