

PCTWORLD INTELLECTUAL PROPERTY ORGANIZATION
International Bureau

INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(51) International Patent Classification ⁶ : C12N 15/40, A61K 35/76, C12N 7/04, A61K 48/00, C12Q 1/70	A2	(11) International Publication Number: WO 99/64604 (43) International Publication Date: 16 December 1999 (16.12.99)
(21) International Application Number: PCT/EP99/03642 (22) International Filing Date: 26 May 1999 (26.05.99) (30) Priority Data: 98110356.7 5 June 1998 (05.06.98) BP (71) Applicant (for all designated States except US): BOEHRINGER INGELHEIM VETMEDICA GMBH [DE/DE]; D-55216 Ingelheim am Rhein (DE). (72) Inventor; and (75) Inventor/Applicant (for US only): MEYERS, Gregor [DE/DE]; Alpstrasse 1, D-72141 Walddorfhäslach (DE). (74) Agent: LAUDIEN, Dieter; Boehringer Ingelheim GmbH, A Patente, D-55216 Ingelheim am Rhein (DE).		(81) Designated States: AU, BG, BR, BY, CA, CN, CZ, EE, HR, HU, ID, IL, IN, JP, KR, KZ, LT, LV, MX, NO, NZ, PL, RO, RU, SG, SI, SK, TR, UA, US, UZ, VN, YU, ZA, Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE). Published <i>Without international search report and to be republished upon receipt of that report.</i>
(54) Title: ATTENUATED PESTIVIRUSES (57) Abstract This invention relates to attenuated pestiviruses characterised in that their enzymatic activity residing in glycoprotein ERNS is inactivated, methods of preparing, using and detecting these.		