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Rec'd PCT/PTO 19 MAY 2009 MODIFIED Form PTO-1595 ER SHEET U.S. DEPARTMENT OF COMMERCE (Rev. 10/02) U.S. Patent and Trademark Office Ϋ́ To the Director of the U.S. Patent and Trademark Office: Please record the attached original documents or copy thereof. 1. Name of conveying party(ies): 2. Name and address of receiving party(ies): Jaume PIÑOL RIBAS, Sergi BRU VIRGILI, LABORATORIOS HIPRA, S.A. Enric ESPUÑA MASO, Enrique QUEROL MURILLO 135, Avenida de la Selva 17170 AMER, SPAIN Additional name(s) of conveying party(ies) attached?
Yes
No 3. Nature of conveyance: ☑ Assignment ☐ Merger ☐ Security Agreement ☐ Change of Name ☐ Other Execution Date: April 25, 2005 Additional name(s) & address(es) attached?

Yes 4. Application number(s) or patent number(s): If this document is being filed together with a new application, the execution date of the application is: April 25, 2005 A. Patent Application No.(s) B. Patent No.(s) Additional numbers attached? ☐ Yes ☑ No 5. Name and address of party to whom correspondence 6. Total number of applications and patents involved: concerning document should be mailed: 7. Total fee (37 CFR 3.41): \$40.00 SUGHRUE MION, PLLC ☑ Enclosed. WASHINGTON OFFICE ☐ Authorized to be charged to Deposit Account No. 19-4880. 23373 The USPTO is directed and authorized to charge all required CUSTOMER NUMBER fees, except for the Issue Fee and the Publication Fee, to Deposit 05/21/2005 GFREY1 00000140 1053544 Account No. 19-4880. Please also credit any overpayments to said Deposit Account. 07 FC:8021 8. Deposit Account Number: 19-4880 (Attach duplicate copy of this page if paying by deposit account) DO NOT USE THIS SPACE 9. Statement and signature. To the best of my knowledge and befief, the foregoing information is true and correct and any attached copy is a true copy of the original document. May 19, 2005 Reg. No. 30,764 Gordon Kit Date Potal number of pages including cover sheet, attachments, and documents: 2

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PATENT REEL: 017194 FRAME: 0297

ASSIGNMENT

Whereas, I/We,

PIÑOL RIBAS, Jaume of 161, Passeig de Validoreix, 08197 VALLDOREIX-SANT CUGAT DEL VALLES, Spain BRU VIRGILI, Sergi of 42, carrer Concepcio Arenal, 08027 BARCELONA, Spain ESPUÑA MASO, Enric of 9, Avinguda Paraguai, 17800 OLOT, Spain QUEROL MURILLO, Enrique of 35, calle Valimajor, 08021 BARCELONA, Spain

have invented hereinafter called Assignor(s), improvements in "Live attenuated vaccine against porcine pleuropneumonia" and executed an application for Letters Patent of the United States of America therefor on and Whereas, LABORATORIOS HIPRA, S.A. a corporation of Spain 135. Avenida de la Selva, 17170 AMER, Spain desires to acquire the entire right, title and interest in the application and invention and to any United States patents to be obtained thereof. Now, therefore, for valuable consideration, whereof is hereby acknowledged, I/We, the above named assignors(s) hereby sell, assign and transfer to the above named assignee, its successors and assigns, the entire right, title and interest in the application and the invention disclosed therein for the United States of America, including the right to claim priority under 35 U.S.C. \$119, and I/we request the Commissioner of Patents to issue any Letters Patent granted upon the invention set forth in the application to the assignee, its successors and assigns; and I/we will execute without further consideration all papers deemed necessary by the assignee in connection with the United States application when called upon to do so by the assignee. I/We hereby authorize and request my attorneys SUGHRUE MION, PLLC of 2100 Pennsylvania Avenue. N.W. WASHINGTON, D.C. 20037-3202 to insert here in parentheses (Application number ____ _, filed the filing date and application number of said application when known. Date: April 25, 2005 s) PIÑOL RIBAS, Jaume Date: April 25, 2005 s) ___ BRU VIRGILL Sergi Date: April 25, 2005 s) ESPUÑA MASO, Enric. Date: April 25, 2005s) QUEROL MURILLO, Enrique

(Legalization not required for recording but is prima facie evidence of execution under 35 U.S.C. §261)

PATENT RECORDED: 05/19/2005 REEL: 017194 FRAME: 0298