Accepted Manuscript

Title: Foot-and-mouth disease vaccines

Author: Fayna Diaz-San Segundo Gisselle N. Medina Carolina Stenfeldt Jonathan Arzt Teresa de los Santos



Please cite this article as: Segundo, Fayna Diaz-San, Medina, Gisselle N., Stenfeldt, Carolina, Arzt, Jonathan, de los Santos, Teresa, Foot-and-mouth disease vaccines.Veterinary Microbiology http://dx.doi.org/10.1016/j.vetmic.2016.12.018

This is a PDF file of an unedited manuscript that has been accepted for publication. As a service to our customers we are providing this early version of the manuscript. The manuscript will undergo copyediting, typesetting, and review of the resulting proof before it is published in its final form. Please note that during the production process errors may be discovered which could affect the content, and all legal disclaimers that apply to the journal pertain.



ACCEPTED MANUSCRIPT

FOOT-AND-MOUTH DISEASE VACCINES

Fayna Diaz-San Segundo^{1,2*}, Gisselle N. Medina^{1, 3}, Carolina Stenfeldt^{1, 3}, Jonathan Arzt¹, Teresa de los Santos^{1*}

¹Foreign Animal Disease Research Unit (FADRU), Plum Island Animal Disease Center (PIADC), Agricultural Research Service (ARS), United States Department of Agriculture (USDA), Greenport, New York, USA

²Department of Pathobiology and Veterinary Science, CANR, University of Connecticut, Storrs, CT 06269, USA

³PIADC Research Participation Program, Oak Ridge Institute for Science and Education, Oak Ridge, Tennessee, USA

*Corresponding author. Mailing address: Plum Island Animal Disease Center, USDA, ARS, NAA, P.O. Box 848, Greenport, New York 11944. Phone: (631) 323-3020. Fax: (631) 323-3006. E-mail: teresa.delossantos@ars.usda.gov or fayna.sansegundo@ars.usda.gov.

HIGHLIGHTS

- Although FMD vaccines have been available for over 70 years, disease prevention has only been successful in limited regions of the world.
- Substantial progress in FMD virus research at the molecular, cellular and live animal levels has been made in recent decades.
- New inactivated FMDV DIVA marker, and purified protein-based vaccines are in advanced stages of development.
- An adenovirus vectored FMD vaccine was granted in 2012 a license for production in USA and use in emergency situations in cattle.

Download English Version:

https://daneshyari.com/en/article/5545341

Download Persian Version:

https://daneshyari.com/article/5545341

Daneshyari.com