



## RECOMBITEK® Brand Vaccines Features and Benefits

Vaccinations should be considered an important part of each equine health care program.

Advanced vaccine technology can provide real benefits to horses exposed to serious disease threats such as West Nile virus and influenza.

RECOMBITEK Equine West Nile Virus (WNV) and RECOMBITEK Equine Influenza Virus vaccines are convenient, effective and can help protect your horse from potentially fatal diseases.

Key disease information:	How advanced vaccine technology can help:
<ul style="list-style-type: none"><li>WNV has been identified in all areas of the continental United States, and horses represent more than 95 percent of all nonhuman cases in mammals.<sup>1</sup></li></ul>	<ul style="list-style-type: none"><li>RECOMBITEK Equine WNV is the only commercially available vaccine that has been tested against natural challenge with WNV-infected mosquitoes as well as WNV intrathecal challenge in horses.<sup>2,3</sup></li></ul>
<ul style="list-style-type: none"><li>About one in three WNV-infected horses die.<sup>1</sup></li></ul>	<ul style="list-style-type: none"><li>In a study, RECOMBITEK Equine WNV vaccine was shown to protect horses 26 days after the first dose.<sup>4</sup></li></ul>
<ul style="list-style-type: none"><li>Vaccinating young foals can help protect against serious disease challenges like WNV.</li></ul>	<ul style="list-style-type: none"><li>RECOMBITEK Equine WNV vaccine is safe for foals as young as 2 to 4 months of age.<sup>5</sup></li></ul>
<ul style="list-style-type: none"><li>As many as 20 percent of infected horses do not show signs of influenza, but can still shed the virus and spread infection.<sup>6</sup> Viral shedding peaks 24 to 48 hours after onset of fever.<sup>6</sup></li></ul>	<ul style="list-style-type: none"><li>Horses vaccinated with other vaccines often shed pathogenic influenza virus when they are challenged by a natural infection. RECOMBITEK Equine Influenza Virus vaccine reduces viral shedding,<sup>7</sup> helping to stop the spread of influenza to other horses.</li></ul>
<ul style="list-style-type: none"><li>A coughing horse may spread infected droplets as</li></ul>	<ul style="list-style-type: none"><li>Horses traveling or being commingled with other</li></ul>

far as 50 yards. <sup>6</sup>	horses in a barn or during an event should be protected from the most virulent, recent strains of equine influenza. RECOMBITEK Equine Influenza Virus vaccine is proven against American strain N/5/03. <sup>7</sup>
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<sup>1</sup>Guidelines for Vaccination of Horses: West Nile virus. American Association of Equine Practitioners. Available at: <http://www.aaep.org/wnv.htm>. Accessed April 15, 2009.

<sup>2</sup>Minke JM, et al. Recombinant canarypox virus vaccine carrying the prM/E genes of West Nile virus protects horses against a West Nile virus-mosquito challenge. *Archives of Virology* 2004 [Supp.];18:221-230.

<sup>3</sup>Siger L, et al. Evaluation of the efficacy provided by a recombinant canarypox-vectored equine West Nile virus vaccine against an experimental West Nile virus intrathecal challenge in horses. *Vet Ther* 2006;7(3):240-256.

<sup>4</sup>Siger L, et al. Assessment of the efficacy of a single dose of a recombinant vaccine against West Nile virus in response to natural challenge with West Nile virus-infected mosquitoes in horses. *American Journal of Veterinary Research* 2004;65(11):1459-1462.

<sup>5</sup>Data on file at Merial. Study 02-067.

<sup>6</sup>Influenza updates for the AVMA. Background: Equine influenza. Available at: [http://www.avma.org/public\\_health/influenza/equine\\_bgnd.asp](http://www.avma.org/public_health/influenza/equine_bgnd.asp). Accessed April 15, 2009.

<sup>7</sup>Paillot R, et al. Antibody and IFN- $\gamma$  responses induced by a recombinant canarypox vaccine and challenge infection with equine influenza virus. *Veterinary Immunology and Immunopathology* 2006;112:225-233.