

# *We're for saving lives.*



14-month duration of immunity • Low-volume dose • 97.7% reaction free in field studies

## Rabies protection designed specifically for the horse.

### **Rabies Is Everywhere.<sup>1</sup>**

- Between 6,000 and 7,000 total U.S. rabies cases reported annually; 30 equine cases in 2008.
- 49 states reported rabies in 2008. Hawaii is the only state rabies free.
- Raccoons are the most reported rabid wildlife species.
- Exposure can occur in a stall, in a field, at a show.

### **Rabies Is a Core Vaccine.**

- Disease is invariably fatal once clinical signs appear.
- Considerable public health significance.
- January 2008 American Association of Equine Practitioners Guidelines recommend rabies vaccine as a core vaccine for all horses.

### **Equi-Rab™ Equine Rabies Vaccine With Havlogen®<sup>2</sup>**

- For the vaccination of healthy horses, 4 months of age or older, as an aid in the prevention of disease caused by rabies virus up to 14 months following vaccination.
- First and only rabies vaccine made specifically for the horse.
- 97.7% reaction free in field safety studies.
- 14-month DOI.
- Rapid onset of immunology response measured by RFFIT titers in company study.
  - 100% of horses responded to vaccination within 7 days.
  - 77% reached peak titers within 14 days.

<sup>1</sup> Information from <http://www.cdc.gov/rabies/epidemiology.html>

<sup>2</sup> Adjuvant—Merck Animal Health's Proprietary Technology

# Proven protection & 14-month DOI.

## IMMUNOGENICITY AND DURATION OF IMMUNITY (DOI) STUDY

- Vaccinates: 26 seronegative, mixed sex, 4-month-old (average) horses; received one dose (1.0 mL) of EquiRab vaccine IM
- Controls: 11 similar horses served as non-vaccinated controls
- At 14 months post-vaccination, 16 horses were selected for rabies challenge according to 9 CFR 113.209 (b) (4) requirements:
  - 5 vaccinates with the lowest RFFIT<sup>3</sup> titer at the 270th day bleeding
  - 6 vaccinates with the lowest RFFIT titer at the 365th day bleeding
  - 5 unvaccinated RFFIT titer-negative horses
- Post-challenge, horses were observed daily for a minimum of 90 days for clinical signs consistent with rabies disease which included, but was not limited to, excessive salivation or urination, loss of appetite, not drinking, depression, signs of paralysis, becoming vicious, coma or sudden death.
- Brain tissues of each test animal that died or was euthanized was examined for rabies virus by direct fluorescent antibody (DFA) test at CDC.
- 9 CFR 113.209 (b) (4) requirements for vaccine licensure indicate study results must meet the following:
  - All vaccinates that were challenged must survive the challenge.
  - At least 80% of the control animals must succumb to rabies.

<sup>3</sup> Rapid Fluorescent Focus Inhibition Test

<sup>4</sup> One horse died on day 61 post-challenge without any neurological signs. DFA testing confirmed death was a non-rabies-related cause.

## EquiRab with Havlogen®\*

**DESCRIPTION:** A liquid suspension of inactivated rabies virus propagated in a stable cell line. The efficacy of this vaccine has been demonstrated in controlled vaccination challenge tests and the safety in thorough field evaluations.

**INDICATIONS:** For vaccination of healthy horses, 4 months of age or older, as an aid in the prevention of disease due to rabies virus up to 14 months following vaccination.

**DOSE:** For primary immunization aseptically inject 1 mL intramuscularly. Annual revaccination is recommended. A booster dose can be administered at more frequent intervals based upon individual horse or farm disease risk assessment or any time epidemic conditions exist or are reported. Consult your veterinarian.

## EquiRab's 14-month DOI study demonstrated the following results after one dose:

- 10 out of 10 vaccinates (100%) remained healthy and free of rabies disease or clinical signs during the 90-day observation period.<sup>4</sup>
- 4 out of 5 controls (80%) died within 22 days post-challenge, and the presence of rabies virus was confirmed by DFA testing.

## FIELD SAFETY STUDY

- Conducted by four veterinarians in three states; 992 healthy horses of various ages, breeds and sexes, including 413 foals 4 months of age or younger.
- 992 horses received one dose of vaccine; 992 total doses were given.
- All horses/foals were observed immediately and for one, two or three days post-vaccination for signs of adverse reactions.
- Proven safe in field safety studies: 97.7% reaction-free.

## Recommend EquiRab.

Contact your Merck Animal Health or distributor sales representative, or call 1-800-441-8272, to order.



**We're for the horse.™**

And for helping the unwanted horse. Visit [uhvrc.org](http://uhvrc.org)

**CAUTIONS:** Store at 35° to 45°F (2° to 7°C). DO NOT FREEZE. SHAKE WELL BEFORE USING. Use entire contents when first opened. Do not vaccinate within 21 days before slaughter. Vaccinating animals whose immune response is compromised by stress, disease, etc. may not produce the desired results. Anaphylactic reactions may occur.

**ANTIDOTE: Epinephrine.**  
Neomycin, polymyxin B and thimerosal added as preservatives.

**SUPPLIED:**  
Code: 032396 10 x 1 mL (1 dose) sterile syringes per box, individually printed plastic bag with needle.  
032585 10 mL (10 doses) vial.

**FOR USE IN ANIMALS ONLY.**