

Mycoplasma Hyopneumoniae Bacterin



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Myco Silencer® ONCE with Microsol Diluvac Forte®

Para uso en cerdos sanos como ayuda en la prevención de neumonía causada por *Mycoplasma hyopneumoniae* hasta por 6 meses. Este producto contiene cultivos inactivados en Microsol Diluvac Forte®.

Dosis e indicaciones: Agítense bien, asepticamente inyecte intramuscularmente (IM). Administre una dosis de 2 mL a cerdos mayores de 3 semanas de edad.

Duración de inmunidad: Vaccunación con una dosis protege hasta por 6 meses.

Advertencias: Manténgase en un lugar obscuro a no más de 7°C (45°F). No congelar. No guardar partes del contenido. Incinerar botella y contenido no usado. Usar solamente en cerdos sanos. No vacunar 21 días antes del sacrificio. Si ocurren reacciones alérgicas, administre epinefrina. Contiene gentamicina y timerosal como conservadores.

SOLO PARA USO VETERINARIO

Mycoplasma Hyopneumoniae Bacterin



Myco Silencer® ONCE

50 doses 100 mL Code PS-788-50



INTERVET INC., Millsboro, DE 19966
U.S. Veterinary License No. 286

For use in healthy swine as an aid in the prevention of pneumonia caused by *Mycoplasma hyopneumoniae* for up to 6 months. This product contains an inactivated culture in Microsol Diluvac Forte®.

DOSAGE AND DIRECTIONS: Shake well, aseptically inject intramuscularly (IM). Administer a single 2 mL dose at 3 weeks of age or older.

DURATION OF IMMUNITY: Vaccination with one dose is protective for up to six months.

CAUTION: Store in the dark at not over 45°F (7°C). Do not freeze. Do not save partial contents. Burn the container and all unused product. Use in healthy swine. Do not vaccinate within 21 days of slaughter. If allergic reaction occurs, treat with epinephrine. Contains gentamicin and thimerosal as preservatives.

FOR VETERINARY USE ONLY

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*Not actual label

The ONE DOSE Mycoplasma Bacterin, designed as a ONE DOSE from the Beginning

- One dose administration that protects pigs up to 6 months
- Single dose saves valuable labor cost
- Reduces stress on pigs and handlers
- Significant reduction in lung lesion
- Allows flexible timing of vaccination
- Formulated with Microsol Diluvac Forte® for optimal immune response
- Excellent syringeability even in cold weather
- >97% reactive free
- 21 day slaughter withdrawal



Product Discussion

MYCO SILENCER® ONCE

Designed for use in healthy swine three weeks of age or older, Myco Silencer® ONCE is an aid for the prevention of enzootic pneumonia caused by *Mycoplasma hyopneumoniae*. A single intramuscular dose of Myco Silencer® ONCE provides protection for up to 6 months. From the very beginning of research and development, Myco Silencer® ONCE was specifically designed as an one-dose *Mycoplasma hyopneumoniae* bacterin. Intervet scientists created a unique formulation of an inactivated culture of *Mycoplasma hyopneumoniae* in the patented Microsol Diluvac Forte® adjuvant to ensure an optimal immune response in pigs while minimizing local reactions and providing excellent syringeability even in cold weather.

The Disease:

Mycoplasma hyopneumoniae (Mhp), a bacteria like organism lacking a cell wall, is a major pathogen of the swine lung. A fairly mild form of pneumonia, it affects primarily young growing pigs from nursery to slaughter ages.

Mycoplasma hyopneumoniae is common within the majority of swine herds and pigs around the world. It is often referred to as “enzootic pneumonia” though this term may also imply an associated *Pasteurella multocida* coinfection.

Infection commonly spreads from an infected sow to her litter or from infected pigs to other susceptible pigs. Infection and disease commonly begins between 6-12 weeks of age as passive maternal protection falls, spreads slowly among susceptible animals, often building into what's been referred to as “the 18 week wall” of a growth slump. Affected lung areas are typically small, dark and well defined in the

anterior ventral lung field. Infection may last 3 - 6 weeks and then recovery where lesions may heal completely back to normal appearing lungs if no secondary bacterial diseases occur, undetectable by slaughter checks. Infection causes loss of the ciliary motion clearing the lungs of mucous, with its dirt and pathogens, and can inhibit pulmonary macrophage phagocytosis, both of which can result in marked predisposition to many other respiratory bacterial pathogens. Recent work has also shown Mhp infection can significantly potentiate PRRS virus infection and lung lesions but less so, only as an additive pathogen effect, with swine influenza virus (SIV).

Clinical signs include a persistent hacking cough, slight fever and inappetance at early infection, mild thumping or rough breathing and usually a slow spread through animals in a room. Prevention by using good management practices to minimize damage from infection; preventing stress and other secondary deadly forms of pneumonia; all in / all out animal flow while limiting the age spread within rooms greatly helps reduce infections levels. Commercial vaccines have been available since late 1990 and have grown to be one of the most important swine respiratory vaccinations.

Efficacy and Duration of Immunity Studies:

The following study demonstrates both the efficacy and the duration of immunity (DOI) of Myco Silencer® ONCE bacterin. Fifty 3 week old pigs were randomly assigned into two groups and received either a single 2.0 mL IM dose of Myco Silencer® ONCE or controls received no vaccination. Animals were all maintained in a

common room throughout the study. At approximately six months of age, all pigs were serum sampled and intra-nasally challenged for three consecutive days with virulent Mhp culture. Three weeks later all pigs were euthanized and their lung Mhp lesions scored for percent involvement.

No vaccinated animals demonstrated any adverse reactions to their injections, either systemic or at the local injection site. All control animals remained sero-negative for Mhp up to their day of challenge. Lung scoring was as follows:

Group	# of pigs	Mean Lung Score	P Value	Reduction %	Improvement
Controls	24	13.4			
Myco Silencer® ONCE	24	5.2	0.006	8.1	61.2

In summary: Myco Silencer® ONCE demonstrated significant protection ($p < 0.01$) against *Mycoplasma hyopneumoniae* challenge up to six months after a single intramuscular vaccination.

Field Safety:

Myco Silencer® ONCE was administered as a single intramuscular vaccination to a total of 1,317 pigs, at approximately 3 weeks of age, across four swine herds. Results demonstrated the vaccine was greater than 97% free of systemic and local injection site reactions. Additional injection site palpations were performed on 233 random pigs across three of the herds at both 1 and 14 days after injection with minimal reactions.

Product Information

Myco Silencer® ONCE

Mycoplasma Hyopneumoniae Bacterin

For use in healthy swine as an aid in the prevention of chronic pneumonia caused by *Mycoplasma hyopneumoniae* for up to 6 months.

Description:

Myco Silencer® ONCE contains an inactivated culture of *Mycoplasma hyopneumoniae* in the patented adjuvant Microsol Diluvac Forte®. This unique formulation ensures an optimal immune response in pigs while minimizing reactions and providing excellent syringeability even in cold weather.

DOSAGE AND DIRECTIONS: Shake well, aseptically inject intramuscularly (IM). Administer a single 2 mL dose at 3 weeks of age or older.

Duration of Immunity Statement:

Three-week-old pigs were either vaccinated with a single dose of Myco Silencer® ONCE or not vaccinated. Both groups were challenged with a virulent *Mycoplasma hyopneumoniae* intranasally at six months of age. Results demonstrated that pigs vaccinated with Myco Silencer® ONCE demonstrated significant protection ($p < 0.01$) against a *Mycoplasma hyopneumoniae* infective challenge up to six months after a single intramuscular dose.

CAUTION: Store in the dark at not over 45°F (7°C). Do not freeze. Do not save partial contents. Bum the container and all unused product. Use in healthy swine. Do not vaccinate within 21 days of slaughter. If allergic reaction occurs, treat with epinephrine. Contains gentamicin and thimerosal as preservatives.

SUPPLIED:

Code: PS-703-50 Size: 50 Doses 100 mL
Code: PS-703-250 Size: 250 Doses 500mL

READ AND FOLLOW LABEL DIRECTIONS



For more information about
Intervet Products
call **1-800-835-0541**
or visit us at
www.intervetusa.com

Intervet Inc., Millsboro, DE 19966

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