

Broad Spectrum Protection in a Single Dose.

ParaSail[®]



Call Newport Laboratories, Inc. and get broad spectrum *H. parasuis* in a single, convenient dose.

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References

1. Kahn CM. Glässer's Disease. The Merck Veterinary Manual. Tenth Edition. Whitehouse Station, NJ: Merck & Co., Inc.; 2010:653-654.
2. Oliveira SR, Simonson RR, Mahlberg JD, Titus MD, Oleson TA, inventors; Modified live *Haemophilus parasuis* vaccine. US patent 8,404,253. March 26, 2013.
3. Data on file at Newport Laboratories, Inc. *Haemophilus Parasuis* Vaccine, Field Safety Study Report. October 5, 2009.
4. Data on file at Newport Laboratories, Inc. *Haemophilus Parasuis* Vaccine, Swine Efficacy Confirmation by Vaccination and Subsequent Challenge with *Haemophilus parasuis*. 121907 PE HPS 19J1.00. December 19, 2007.
5. PARASAIL [product label]. Worthington, MN: Newport Laboratories, Inc. 2014.

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ParaSail[®]

Broad Spectrum Protection in a Single Dose.

Single Dose, Avirulent Live
Haemophilus parasuis Vaccine





WHAT IS PARASAIL® HAEMOPHILUS PARASUIS VACCINE?

PARASAIL *Haemophilus parasuis* vaccine (*H. parasuis*) is an aid in the prevention of Glässer's Disease in swine caused by *Haemophilus parasuis*. There are at least 15 known serotypes circulating in swine herds today.

Haemophilus parasuis is an early colonizer of the upper respiratory tract of pigs¹. Virulent strains of *H. parasuis* can invade the host and cause systemic lesions characterized by fibrinous polyserositis, arthritis, meningitis and death within 24 to 72 hours.¹ *H. parasuis* primarily affects young pigs 4-8 weeks of age but sporadic disease can be observed in adult pigs.¹ Disease caused by *H. parasuis* has a sudden onset, short course and high morbidity and mortality rates.¹

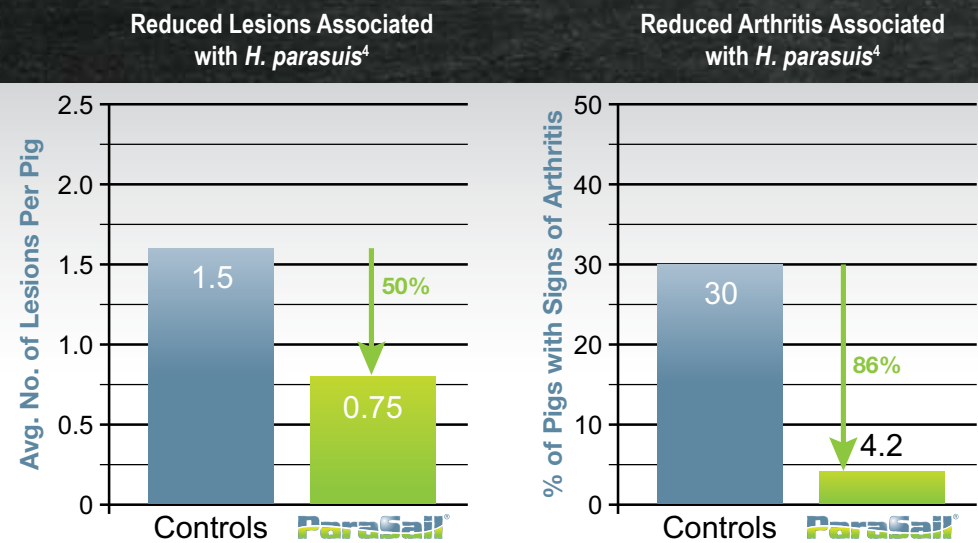
CLINICAL SIGNS¹

Clinical signs are seen primarily in pigs 4-8 weeks old and include:

- High fever (106.7° F)
- Swollen joints
- Lack of appetite
- Reluctance to rise
- Severe coughing
- Paddling
- Abdominal breathing
- Trembling

PERFORMANCE⁴

In field trials, PARASAIL *H. parasuis* vaccine reduced lesions associated with *H. parasuis* by 50%. In the same trial, it reduced arthritis by 86%.



PARASAIL HAEMOPHILUS PARASUIS VACCINE

Newport Laboratories, Inc. avirulent live *H. parasuis* vaccine has undergone 5 years of research and development to ensure safety and efficacy. PARASAIL *H. parasuis* utilizes patented² technology and offers veterinarians and producers *H. parasuis* protection in a single, convenient 1 mL dose.

SAFETY³

PARASAIL *H. parasuis* vaccine was administered to 1,068 pigs at approximately 3 weeks of age. Just 0.66% displayed adverse systemic reactions, all of which recovered within a few minutes. Injection site swelling was observed in 6.6% of pigs 7 days post vaccination. Only one pig (0.095%) displayed injection site swelling 21 days post vaccination.

PARASAIL *H. parasuis* safety has been documented with field safety studies as well as USDA-required studies to determine if post-vaccination shedding or spread to non-vaccinates occurs. Neither occurred. Also, reversion to virulence was shown not to occur with a USDA-required back-passage study.

FEATURES⁵

- Avirulent live *H. parasuis* protection
- Single dose—reduces time, handling and animal stress
- Low 1 mL dose volume—Low tissue disruption & excellent syringeability
- 21-day withdrawal period

PRODUCT DESCRIPTION

The reconstituted vaccine product contains an avirulent live culture of *Haemophilus parasuis*.

INDICATIONS

For the vaccination of healthy swine 3 weeks of age and older, as an aid in the prevention of Glässer's Disease in swine caused by *Haemophilus parasuis*.

MIXING DIRECTIONS

Aseptically rehydrate freeze-dried vial of PARASAIL *H. parasuis* with part of the accompanying bottle of diluent (see insert for complete directions). Mix reconstituted vial well and transfer rehydrated vaccine into diluent bottle. Shake diluent bottle well. Peel label from freeze-dried vial and place on diluent bottle containing all vaccine.

ADMINISTRATION AND DOSAGE

Inject 1.0 mL intramuscularly (I.M.)

PRODUCT PRESENTATIONS Sold in cases of 12 retail units.

- 25 dose/25 mL, 300 doses total
- 50 dose/50 mL, 600 doses total
- 100 dose/100 mL, 1,200 doses total
- 250 dose/250 mL, 3,000 doses total

CAUTION

Discontinue antibiotic therapy 72 hours before vaccination, do not resume until 24 hours post vaccination. Store refrigerated at 35° – 45° F (2° – 7°C). Do not freeze. Use immediately after reconstitution; do not save partial contents. Burn the container and all unused contents. Do not vaccinate within 21 days before slaughter. Transient reaction may occur at injection site. If anaphylaxis occurs, use epinephrine or equivalent. Contains Streptomycin and Amphotericin B as preservatives.

For Use In Swine Only.

1. University of Minnesota VDL Molecular Bacteriology Laboratory. *Haemophilus parasuis*. 2008. Available at: <<http://molecularbacteriology.com/hps.aspx>>.

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3. Newport Laboratories, Inc. PARASAIL pre-launch state diagnostic lab survey. 2009; unpublished.

4. United States Department of Agriculture Animal and Plant Health Inspection Service. Disease in Nursery and Grower/Finisher Pigs in 2000 and 2006 – and Vaccine and Antimicrobial Use in 2006. January, 2008.