

# THE FACTS:

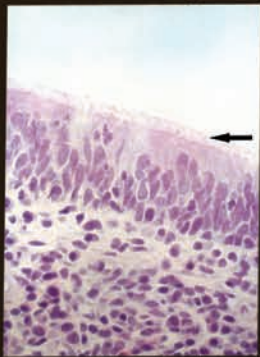
Porcine Respiratory Disease

# PROTECTION

**MAXI/GUARD<sup>®</sup> NasalVac<sup>®</sup>**



**Normal Swine Nasal Turbinate Ciliated Epithelium**



Protected First By Natural Mucociliary Clearance Mechanism

**Damaged Swine Nasal Turbinate Epithelium:**

Devoid of Cilia with Evidence of Superficial Necrosis Within Mucosa Typical of Bb Infection



## Photomicrographic Evidence



Addison Biological Laboratory, Inc.  
800.331.2530  
[www.addisonlabs.com](http://www.addisonlabs.com)

NVDETAIL22

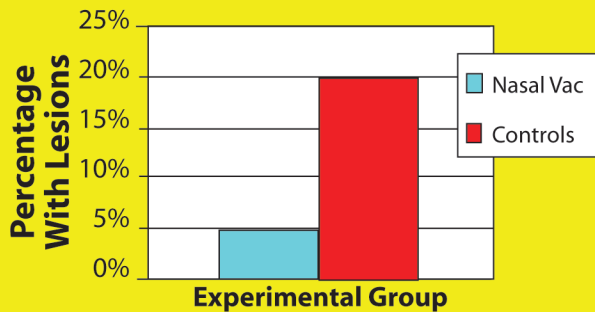
To see how **MAXI/GUARD Nasal Vac** works, scan here for an instructional video.



# NasalVac®

Non-toxicogenic Modified Live Avirulent Organism  
*(Bordetella bronchiseptica)*  
 Administer Day 1-3 of life  
 0.5 mL each nostril  
 Colonizes Ciliated Respiratory Epithelium  
*(Nasal & Tracheal)*  
 No added labor during processing  
 Minimizes costly treatments for respiratory disease

## Lung Lesions at Slaughter (US Data)



## NasalVac® Advantages

- Easy intranasal administration; no injection site reactions or lesions
- Increased weaning weights
- Reduces days to market
- Reduction in respiratory disease treatments (savings in drugs, labor and stress on animals)
- No maternal interference
- Reduced death loss
- Proven safety record
- Competitively priced

## NasalVac® Field Trials

Dr. Paul Knoernschild, DVM · Marshall, MO · 2 Herds (120 & 1,200 Head)  
 Sponsored By: Addison Biological Laboratory, Inc.

### Field Trial Swine Herd A

This herd had a history of clinical Atrophic Rhinitis with up to 8% of the animals showing twisted noses. In order to minimize the variables, every other litter was vaccinated with MAXI/GUARD NASAL VAC and all animals were reared side by side in the same facility. The only variable was the vaccine. **Vaccinates demonstrated no twisted noses and healthy turbinates were revealed at slaughter. Vaccinates reached market weight 10 days sooner than controls.**

	NO. ANIMALS	DAYS TO MARKET	AVERAGE MARKET WEIGHT
VACCINATES	60	166	238 lbs
CONTROLS	60	176	231 lbs

### Field Trial Swine Herd B

This herd demonstrated no clinical signs of Atrophic Rhinitis except for moderate turbinate atrophy on slaughter checks. In order to minimize the variables, every other litter was vaccinated with MAXI/GUARD NASAL VAC and all animals were reared side by side in the same facility. The only variable was the vaccine. **Vaccinates exhibited healthy turbinates at slaughter. Vaccinates reached market weight 10 days sooner than controls.**

	NO. ANIMALS	DAYS TO MARKET	AVERAGE MARKET WEIGHT
VACCINATES	600	170	232 lbs
CONTROLS	600	180	231 lbs

## Field Trial Swine Herd A and B *Observation at slaughter*

	NO. ANIMALS	LUNG LESIONS*
VACCINATES	<b>660</b>	<b>0% of the animals had over 5% of total lung tissue affected</b>
CONTROLS	<b>660</b>	<b>20% of the animals had up to 15% of total lung tissue affected</b>

\*Lung lesions refer to lesions arising from any cause.