

ANTIBIOTIC SUSCEPTIBILITY PATTERNS FOR LIVE ORAL VACCINES

Some antibiotics should be avoided during the non-medicated vaccination window. Use the chart below to determine which antibiotics should be avoided via feed, water or mass injection, during the vaccination window.

Antibiotics shown as S, I or NT in the chart should be avoided for *at least* a 7-day period. Vaccinate on day 4 of the 7-day period.

A **longer** non-medicated period, especially post-vaccination, is recommended. For more information, consult your veterinarian or call 800-325-9167.

Unless noted, all evaluations are MICs performed at Iowa State University Diagnostic Laboratory.

¹Prolonged action of some injectable products, like Draxxin[™] (tulathromycin) and Excede[™] (ceftiofur), call for non-medicated periods of 14 days or longer pre-vaccination.

*Mecadox was performed anaerobically as per manufacturer specifications (susceptible at 20 mm diameter or greater). **Kirby-Bauer disk sensitivity testing performed at Boehringer Ingelheim, Sioux Center, Iowa. Enterisol and Ingelvac are registered trademarks of Boehringer Ingelheim Vetmedica GmbH, Ingelheim, Germany. Denagard is a registered trademark of Novartis Animal Health, Greensboro, NC. Mecadox is a registered trademark of Phibro Animal Health, Fairfield, NJ. Naxcel and Excenel are registered trademarks and Excede and Draxxin are trademarks of Pfizer Animal Health, New York, NY. Pulmotil and Tylan are registered trademarks of Elanco Animal Health, a Division of Eli Lilly & Co., Greenfield, IN. Nuflor is a registered trademark of Schering-Plough Animal Health, Union, NJ.

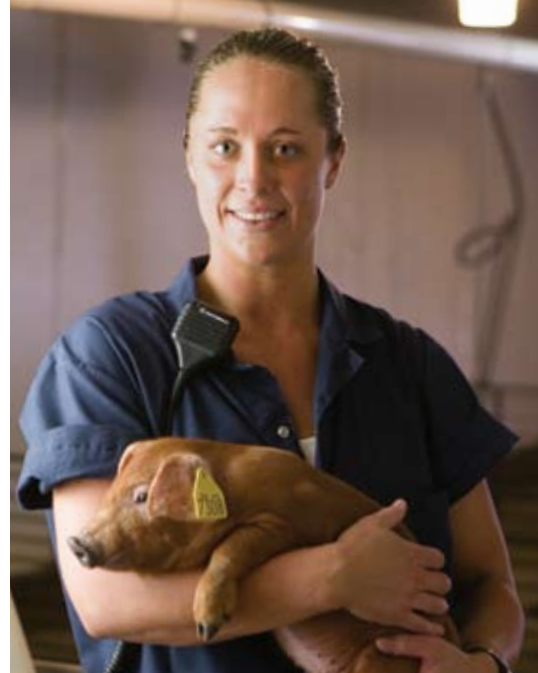


Boehringer Ingelheim Vetmedica, Inc.
2621 North Belt Highway
St. Joseph, Missouri 64506-2002
1-800-325-9167
www.bi-vetmedica.com

Always read and follow label directions.
Enterisol, IMPRAN and Ingelvac are registered trademarks of Boehringer Ingelheim Vetmedica, GmbH, Ingelheim, Germany.
©2006 Boehringer Ingelheim Vetmedica, Inc.

Antimicrobial	Enterisol [®] SC-54	Ingelvac [®] ERY-ALC	Enterisol [®] Ileitis
Amikacin	S	R	X
Amoxicillin/Clavulanate	I	NT	X
Ampicillin	R	S	X
Apramycin	S	S	X
Carbadox* (Mecadox [®])	S	R	X
Ceftiofur (Naxcel [®] , Excenel [®] , Excede [™])	S	S	X
Cephalexin	S	NT	X
Cephalothin	S	S	X
Chlortetracycline	R	NT	X
Clindamycin/Lincomycin	R	S	X
Erythromycin	R	S	X
Florfenicol (Nuflor [®])	S	NT	X
Gentamicin	S	R	X
Neomycin	S	S	X
Oxytetracycline	R	S	X
Penicillin	R	S	X
Spectinomycin	S	NT	X
Sulfachloropyridazine	S	S	X
Sulfadimethoxine	S	R	X
Sulfathiazole**	R	NT	X
Tiamulin (Denagard [®])	R	S	X
Tiamulin/Tetracycline	R	NT	X
Tilmicosin (Pulmotil [®])	R	NT	X
Trimethoprim/Sulfamethoxazole	S	S	X
Tulathromycin (Draxxin [™])	S	S	X
Tylosin (Tylan [®])	R	S	X

R = Resistant
I = Intermediate
S = Susceptible
NT = Not Tested
X = No antibiotics should be administered concurrently with this vaccine



Swine Product Guide



Boehringer Ingelheim Vetmedica, Inc. Product Reference Sheet

Product	Dose / Pkg	Administered	Water Administration	PRRS	Parvovirus	Leptospira — 5 way	Erysipelothrix rhusiopathiae	Salmonella choleraesuis	Salmonella typhimurium	APP	Lawsonia intracellularis	Bordetella intracellularis (ileitis)	Pasteurella bronchiseptica	Haemophilus multocida A&D	Internal Parasites	Feed Additive
Enterisol® Ileitis (Frozen)	100, 250, 500	Orally	●								●					
Enterisol® Ileitis (Non-Frozen)	50, 100	Orally & OD	●								●					
Enterisol® SC-54	50	Orally & IN	●				●	●								
Enterisol® SC-54 FF (Frozen)	250, 500	Orally	●				●	●								
Ingelvac® ERY-ALC (Frozen)	100, 250	Orally	●			●										
Ingelvac® PRRS ATP	10, 50	IM		●												
Ingelvac® PRRS MLV	10, 50	IM		●												
ReproCyc® PRRS PLE	20	IM		●	●	●	●									
ReproCyc® PLE	20	IM		●	●	●	●									
Ingelvac® M. hyo	50, 500	IM							●							
Ingelvac® APP ALC (Frozen)	50	IM								●						
Ingelvac® AR4	100	IM									●	●				
Toxivac® AD+E	50	IM				●					●	●				
Toxivac® Plus Parasuis	50	IM				●					●	●	●			
Ingelvac® HP-1	50, 250	IM												●		
Ingelvac® HPE-1	50	IM				●								●		
Atgard® C Swine Wormer	8 lbs.	Topdress													●	●
Atgard® Swine Wormer	54.6 gm	Topdress													●	●

IN = Intranasal IM = Intramuscular OD = Oral Drench

PRODUCT INFORMATION

Enterisol Ileitis

- For protection against *Lawsonia intracellularis* (ileitis) in swine
- Reduces gross and microscopic intestinal lesions associated with ileitis
- Administered via drinking water or oral drench
- Provides fast, effective immunity
- Better option than continuous use of feed antibiotics
- Proven 5:1 return on investment
- Enterisol Ileitis FF may be used simultaneously with Enterisol SC-54 FF and Ingelvac ERY-ALC
- Available in 50- and 100-dose (non-frozen) and 100-, 250- and 500-dose (frozen) bottles

Enterisol SC-54

- For prevention of salmonellosis in swine resulting from *S. choleraesuis* and *S. typhimurium*
- Convenient single-dose protection saves time and labor
- Provides the fastest onset of immunity: 14 days
- Provides the longest duration of immunity: minimum of 140 days
- Oral and intranasal administration
- Can be used in susceptible pigs as early as one day of age
- Only salmonella vaccine that does not contain the virulence (disease-causing) plasmid
- Ideal for use in salmonella reduction and pork quality programs
- Enterisol SC-54 FF may be used simultaneously with Enterisol Ileitis FF and Ingelvac ERY-ALC
- Available in 50-dose (non-frozen) and 250- and 500-dose (frozen-form) bottles

Ingelvac ERY-ALC

- For protection against erysipelas caused by *Erysipelothrix rhusiopathiae*
- Only single-dose oral vaccine available
- Rapid onset of immunity in 7 days
- Easily administered through drinking water
- Provides at least 128 days of immunity
- Unique live-culture vaccine in frozen formulation
- For swine 8 weeks of age or older
- May be used simultaneously with Enterisol Ileitis FF and Enterisol SC-54 FF
- Available in 100-dose (100mL) and 250-dose (250mL) bottles

Ingelvac PRRS ATP

- Recommended for healthy, susceptible swine between 3 and 18 weeks of age
- Provides cross protection against heterologous challenges
- Demonstrated high level of efficacy against both respiratory and reproductive forms of PRRS
- Intramuscular administration – 2mL dose
- Proven increase in pig performance following vaccination and subsequent exposure to field virus
- Available in 10-dose (20mL) and 50-dose (100mL) bottles

Ingelvac PRRS MLV

- Modified live-virus vaccine for whole-herd protection against porcine respiratory and reproductive syndrome (PRRS) virus in swine
- Safe to use in pigs, sows and gilts at any stage of production in PRRS-positive herds
- Demonstrated high level of efficacy against both respiratory and reproductive forms of PRRS
- Intramuscular administration – 2mL dose
- Reduces PRRS viremia in challenged pigs
- Ideal in gilt stabilization and reproductive maintenance programs
- Provides cross protection against heterologous challenges
- Available in 10-dose (20mL) and 50-dose (100mL) bottles

Ingelvac HP-1

- The only single-dose *Haemophilus parasuis* vaccine on the market
- Provides at least 132 days of HPS protection to serotypes 4 and 5
- Contains the IMPRAN® Plus adjuvant and is highly syringeable
- Available in 50-dose (100mL) and 250-dose (500mL) bottles

Ingelvac HPE-1

- A safe, effective *Haemophilus parasuis* and *Erysipelothrix rhusiopathiae* bacterin
- The only single-dose *Haemophilus parasuis* and erysipelas vaccine on the market
- Provides at least 132 days of HPS protection to serotypes 4 and 5
- Gives at least 162 days of protection against field strains of erysipelas
- Intramuscular administration; 2mL dose per pig at 3 weeks of age or older
- Saves time and labor
- Contains the IMPRAN Plus adjuvant and is highly syringeable
- Available in 50-dose (100mL) bottles

Ingelvac M. hyo

- Single-dose *Mycoplasma hyopneumoniae* vaccine
- Does not contain mineral oil and is proven not to trigger a PCV2 reaction
- Provides a minimum of 120 days immunity
- For use on susceptible swine 3 weeks of age or older
- Intramuscular administration; 2mL dose
- Available in 50-dose (100mL) and 500-dose (1000mL) bottles

Atgard C Swine Wormer

- Most economical dewormer for sows
- One scoop treats any size sow, no over- or under-dosing
- Same dose for all swine greater than 70 lbs, no weight calculations required
- Simple topdress application
- Effective against whipworms, large roundworms and nodular worms
- Controls the adult and L4 & L5 larval stages of all three parasites
- Contains the active ingredient dichlorvos
- No withdrawal
- Available in 8-lb drum

ORAL VACCINATION

Producers and DVMs understand the value of vaccination, however, administering a vaccine economically, efficiently and consistently often proves challenging. Traditional vaccination using intramuscular injection often creates additional labor expenses and may impact carcass quality.

Innovative new technology utilizing oral vaccines administered through the drinking water has created a new opportunity for producers to provide excellent disease protection while eliminating the problems associated with injections or over-reliance on antibiotics.

Oral vaccination offers numerous benefits:

- Mucosal and systemic immunity
- Convenience
- Efficiency in treating hundreds, even thousands of pigs
- Reduced labor expenses
- No needles or potential to reduce meat quality
- Worker safety
- Compliance with Pork Quality Assurance (PQA) guidelines
- Reduced use of antibiotics

Boehringer Ingelheim Vetmedica, Inc. offers three oral vaccines which may be used simultaneously: Enterisol Ileitis FF, Enterisol SC-54 FF and Ingelvac ERY-ALC.

