



# Swine Biosecurity Guide



## NEOGEN Corporate Profile

Founded in 1982, NEOGEN Corporation (NASDAQ: NEOG) now operates out of multiple U.S. and international locations, and has a worldwide presence. NEOGEN develops, manufactures and markets a diverse line of products dedicated to food and animal safety.

### Animal Safety Division

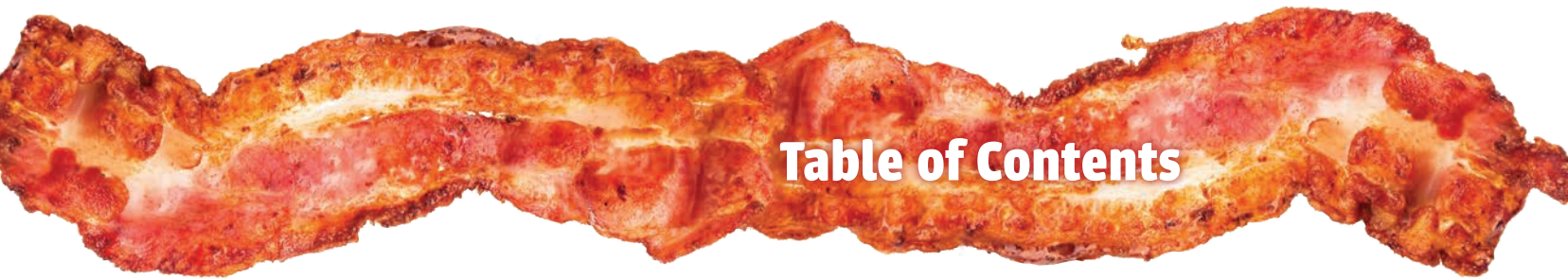
NEOGEN's Animal Safety Division is primarily engaged in the development, manufacture and marketing of genomic services, veterinary instruments, pharmaceuticals, vaccines, diagnostic products, and a full suite of biosecurity products — such as rodenticides, cleaners, disinfectants and insecticides.

The company's comprehensive line of proven rodenticides effectively address rodent problems of any size — from eliminating an occasional house mouse to serving as a critical component of an overall biosecurity plan for major food industry, agricultural, and veterinary operations.

### Food Safety Division

NEOGEN's Food Safety Division consists primarily of diagnostic test kits and complementary products (e.g., dehydrated culture media) sold to food producers and processors to detect dangerous and/or unintended substances in human food and animal feed, such as foodborne pathogens, spoilage organisms, natural toxins, food allergens, meat speciation, drug residues, pesticide residues and general sanitation concerns. The company's diagnostic test kits are generally less expensive, easier to use and provide greater accuracy and speed than conventional diagnostic methods.





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# Cleaners and Disinfectants

Farm-Foam EVO • Acid-A-Foam™ EVO • Chlor-A-Foam™ EVO • Acid Tray Wash EVO  
Barnstorm® • Quik Clean + Pine • Swine-O-Dyne® • Universal Barn Cleaner  
BioPhene II Disinfectant • Synergize® • BioQuat™ 20 • Dyne-O-Might® • Iodis®  
Peraside • Peraside 15 • COMPANION™



# Cleaners and Disinfectants

## Cleaners

Cleaning is just one step in a two-step program to rid all areas, including those with porous surfaces, of high soil loads and hard water for a safe and healthy environment for livestock. In addition to using formulated cleaners, dry cleaning helps remove any organic material, allowing the detergent to reach the toughest areas. Proper dry cleaning and utilization of one of the following detergents prior to disinfection will provide the disinfectant a clean surface to eliminate disease-causing pathogens from your operation.

Product	pH	Use	Description	Item No.
<b>Farm-Foam EVO</b>	Alkaline	Removal of organic soils, fats, grease, and fecal material	1 gal Jug	418088/1
			5 gal Pail	418088/5
			55 gal Drum	418088/55
<b>Acid-A-Foam™ EVO</b>	Acidic	Alternative to regular barn cleaners for effective hard scale, mineral, and detergent buildup	1 gal Jug	418089/1
			5 gal Pail	418089/5
			55 gal Drum	418089/55
<b>Chlor-A-Foam™ EVO</b>	Alkaline	Chlorinated cleaner removes protein, fat and carbohydrate soils from surfaces	1 gal Jug	418087/1
			5 gal Pail	418087/5
			55 gal Drum	418087/55
<b>Acid Tray Wash EVO</b>	Acidic	Non-foaming cleaner for use in sensitive areas like cool cell descaling	1 gal Jug	418086/1
			5 gal Pail	418086/5
			55 gal Drum	418086/55
<b>Barnstorm®</b>	Phosphoric acid blend	Heavy-duty, high-foaming descaling of organic and inorganic loads	1 gal Jug	418083/1
			5 gal Pail	418083/5A
			55 gal Drum	418083/55
<b>Quik Clean + Pine</b>	Neutral blend	Biodegradable, high-foaming degreaser	1 gal Jug	417081/1
			5 gal Pail	417081/5
			55 gal Drum	417081/55
<b>Swine-O-Dyne®</b>	Iodine acidic blend	Iodine-based sow shampoo	1 gal Jug	418084/1
<b>BioSentry Universal Barn Cleaner</b>	Alkaline blend	Quickly removes grime, grease, protein and fatty soils	1 gal Jug	D12568757
			5 gal Pail	D12205602
			55 gal Drum	D12205613



## Why Clean Before Disinfecting?

Cleaning alone reduces microbial levels by 90%. When coupled with disinfecting, microbial reduction can reach 99.999%! Removing organic and scale build up prior to disinfection provides the disinfectant with a surface to effectively eliminate pathogens. And don't forget to choose the correct chemistry for your operation's specific needs. Acids are wonderful for hard water and mineral scale; alkalines break through even the toughest of caked-on fats, proteins, and oils; and neutral pH cleaners are safe on any surface.

### Farm-Foam EVO

Farm-Foam EVO is a phosphate-free, foaming, alkaline cleaner used for the removal of organic soils, especially fats and grease. Farm-Foam EVO is ideal for the removal of fecal material and soil in swine premises, especially in farrowing rooms. Farm-Foam EVO removes dirt, grime, protein, and oils, as well as minerals and adherent films.

### Acid-A-Foam™ EVO

Acid-A-Foam™ EVO is a phosphate-free, acidic foaming cleaner used as an alternative to regular equipment or barn cleaners to remove detergent residues, mineral scale and other hard-to-remove elements. A clean surface is required for complete disinfection. Alternating between a good alkaline detergent and a good acid-based detergent maximizes surface cleanliness and, therefore, prepares the surface for the second step of disinfection. Acid-A-Foam EVO removes dirt, grim, protein, and oils as well as minerals and adherent films.

### Chlor-A-Foam™ EVO

Chlor-A-Foam™ EVO is a phosphate-free, high foaming alkaline cleaner that rapidly removes protein, fat and carbohydrate soils from surfaces, as well as stubborn yellow stains. Chlor-A-Foam EVO is used for cleaning equipment, farrowing rooms, crates, walls, and floors in farrowing rooms. It is excellent for stainless steel, concrete, plastic, fiberglass, glass, tile and other surfaces. It can be used through a variety of foam-generating equipment as well as in pressure washers.

### Acid Tray Wash EVO

Acid Tray Wash EVO, though typically a poultry detergent, is also an effective cool cell cleaner and descaler. Acid Tray Wash EVO is an acidified, phosphate-free, non-foaming cleaner for rinsing and equipment descaling.

### Barnstorm®

Barnstorm is a heavy-duty, concentrated acidic cleaner and descaler. It's high-foaming detergency is designed to remove both organic and inorganic soils from surfaces prior to disinfection.

### Quik Clean + Pine

A highly-balanced, neutral cleaner and degreaser, especially designed for use in and on swine facilities and equipment. Quik Clean + Pine is safe and non-corrosive due to its neutral pH.

### BioSentry Universal Barn Cleaner

BioSentry Universal Barn Cleaner is an effective, general-purpose alkaline cleaner for use in swine units including: nurseries, farrowing crates, breeding and gestation rooms, loading chutes, animal transport vehicles, boot baths, drinkers and feeders, and all areas in the pork production facility.

### Swine-O-Dyne®

Swine-O-Dyne is an iodine-based sow shampoo developed especially for use prior to farrowing. With the proven germicidal ability of iodine, Swine-O-Dyne helps break the cycle of cross-contamination between sows and newborn piglets, limiting their exposure to harmful pathogens.



# Disinfectants

Biosecurity doesn't cost, it pays! Your ability to prevent the onset of infectious disease goes a long way towards enhancing health and performance while reducing the cost of treating sick pigs. And disinfecting is a big part of that equation.

By definition, biosecurity means, "securing life." For the pork producer, it can be defined as a comprehensive program designed to create a protective barrier around the production facility that will physically block the introduction of disease. This can be achieved through procedures like (but not limited to):



*Cleaning and disinfecting buildings, vehicles and supplies*



*Requiring shower-in shower-out protocols*



*Limiting visitors*



*Providing fresh coveralls*



*Placing boot baths at all building entrances*

To ensure your operation stays secure, reach for one of the following disinfectants to help keep your herd safe and healthy.

**Synergize®** is a multi-purpose disinfectant-cleaner formulated for use in swine operations. It is also formulated for use on the following equipment in these facilities: drinkers, feeders, hauling vehicles and equipment, farrowing crates, nurseries, blocks, creep areas, loading chutes, livestock transportation trucks and trailers, and boot baths. The disinfection of trailers, tires, and boot baths is an integral part of strict biosecurity protocols, and the impact of freezing temperatures on these applications cannot be overstated. In order to keep Synergize from freezing and to allow it the contact time necessary to be effective, you can add either windshield washer fluid (WWF) or propylene glycol (PG) to your disinfecting solution.



## Propylene Glycol (PG)

In order to keep Synergize from freezing and to allow it the contact time necessary to be effective, you can incorporate the use of propylene glycol to your disinfecting solution during cold weather conditions.

Product	Use	Description	Item No.
Propylene Glycol USP	Anti-freezing agent	1 gal Jug	72931
		18.9 L Pail	416184/5

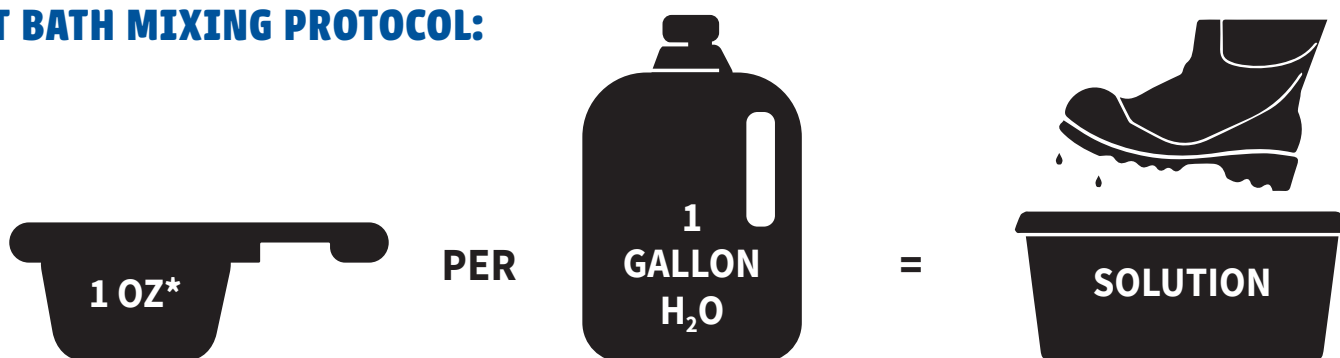
For smaller scale disinfecting (tires, undercarriages, loading chutes, loading docks, small equipment, etc.), filling a pump-up or backpack sprayer (2-5 gallon capacity) with windshield washer fluid concentrate (typically 40% methanol-based) plus recommended levels of Synergize Disinfectant (1:128) is the surest way to prevent freezing.

For large scale disinfecting (trailers, transport vehicles) adding 10–20% PG to your disinfecting solution will prevent freezing down to -15°F. The use of a reservoir tank is required for this application. Using an empty 55-gallon drum as our tank, follow these recommended procedures:

1. Fill empty drum with 50 gallons of water
2. Add 50 ozs of Synergize Disinfectant
3. Add prescribed amount of PG (2.5–10%) depending on level of freeze protection desired (down to -15° F)
4. Mix thoroughly
5. Pump solution directly from drum onto trailer (an electric pump works well for this application).

*\*An update on PRRSV biosecurity research Scott Dee, DVM MS PhD Dipl ACVM, John Deen, DVM MS PhD Dipl ACVP, Jennifer Schurrer, BA, Jenny Cho, BA, Roger Moon, PhD, Montserrat Torremorell, DVM PhD, Danny Burns, DVM, George Douthit, BS, Carlos Pijoan, DVM PhD, Department of Veterinary Population Medicine, University of Minnesota. Allen Leman Swine Conference, 2004.*

## BOOT BATH MIXING PROTOCOL:



*\*Depending on product label*



### Boot Bath Instructions

1. Before entering the facility, use a stiff brush to remove all organic material from the boots.
2. Step into the boot bath until the tops of the foot area of the boots are submerged.
3. Be sure that all surfaces of the boot below the ankle are covered in the disinfectant before stepping out.
4. Proceed with any work that needs to be done in the livestock facility.
5. Before exiting, repeat the procedure above, finishing with disinfecting the boots in the boot bath container.



Product	Active Ingredient	Use	Description	Item No.
<b>BioPhene™ Disinfectant Spray</b>	O-Phenylphenol and Ethanol	Effective disinfecting aerosol for offices, supplies and equipment, truck cabs, and vehicles	16 oz Can	490910
<b>BioPhene II Disinfectant</b>	Phenol and IPA	Alkaline disinfectant for poultry, swine, cattle and other livestock facilities	1 gal Jug	480019/1
			55 gal Drum	480019/55
<b>Synergize®</b>	Quaternary ammonium/ Glutaraldehyde	Effective critical surface disinfectant including farrowing crates and pens, livestock transportation trailers and vehicles, feed trucks, and delivery trucks	1 gal Jug	433600/1
			2.5 gal Pail	433600/2.5
			5 gal Pail	433600/5A
			30 gal Drum	433600/30
			55 gal Drum	433600/55
			275 gal Tote	433600/275
<b>Synergize® NP</b>	Quaternary ammonium/ Glutaraldehyde	No Pine version of Synergize Disinfectant	1 gal Jug	433602/1
			5 gal Pail	433602/5
			55 gal Drum	433602/55
<b>Synergize® Cool</b>	Quaternary ammonium/ Glutaraldehyde	Effective cool cell disinfectant for low cost, seasonal PRRSv control	55 gal Drum	403381/55
<b>BioSentry® BioQuat™ 20</b>	Quaternary ammonium compound	Economic and effective truck and tire disinfectant	1 gal Jug	D12709575
			55 gal Drum	D12670163
<b>Dyne-O-Might®</b>	Iodine compound and propionic acid	Oxidizing and pH reducing effect of the acids help to permeate and break down cell walls in and around swine facilities and equipment	1 gal Jug	404184/1
			2.5 gal Pail	404184/2.5
			5 gal Pail	404184/5
			55 gal Drum	404184/55
<b>Iodis®</b>	1.75% Iodine	Acidic, no-rinse sanitizer for farm premises and boot baths	1 gal Jug	433300/1
			5 gal Pail	433300/30
			55 gal Drum	433300/55
<b>Peraside</b>	Peracetic acid and hydrogen peroxide	Effective fogging sanitizer for use in farm premises and D&D rooms	2.5 gal Pail	406047/2.5
			5 gal Pail	406047/5
			30 gal Drum	406047/30
			53.5 gal Drum	406047/55
<b>Peraside 15</b>	Peroxyacetic acid and hydrogen peroxide	Poultry and livestock drink water lines, animal housing premise, food contact surface and fruit and vegetable processing	2.5 gal Pail	480020/2.5
			5 gal Pail	480020/5
			15 gal Drum	480020/15
			330 gal Tote	480020/330
<b>COMPANION™ Foaming Hand Sanitizer</b>	Ethyl alcohol	Effective hand sanitizer for offices, barns, trucks and vehicles	1.7 oz Travel Size Bottle	490909/1.7
			7 oz Bottle	490909/16
			1 gal with Foaming Pump	490909/1
<b>COMPANION™ Disinfecting Wipes</b>	Citric acid	Effective disinfecting wipes for offices, supplies and equipment, truck cabs and vehicles	160 ct Jug	490908
			60 ct Soft Pack	490908/SP

### BioSentry® BioPhene™ II Disinfectant

BioSentry BioPhene II is a high activity phenolic disinfectant for use in poultry and swine facilities, animal care facilities, and other livestock and veterinary uses. BioSentry BioPhene II is a disinfectant, cleaner, bactericidal, fungicidal, and virucidal effective in 5% blood serum and up to 400ppm water.

### BioSentry BioPhene Spray Disinfectant

BioSentry BioPhene Spray Disinfectant is an EPA registered disinfectant that effectively controls the common viruses and bacteria that challenge the agriculture market. In addition to controlling viruses, bacteria, and fungi; BioPhene Spray Disinfectant also eliminates odor and controls mold and mildew. BioPhene Spray Disinfectant can be used in vehicles, on footwear, or anywhere quick disinfection may be needed which makes it a great addition to your biosecurity portfolio.

### BioQuat™ 20

BioSentry BioQuat 20 Disinfectant is an efficient disinfectant and sanitizer of high germicidal potency. Effective in 5% organic soil load, 400 ppm hard water and 0.5 oz per gallon dilution. Recommended use solutions are odorless, non-corrosive to metal surfaces and are non-staining. Used in farm premises as hard surface disinfectant, this is the economic choice in truck and tire disinfecting.

### Dyne-O-Might®

Dyne-O-Might is a cleaner-disinfectant and ammonia neutralizer made up of a unique patented blend of acids and iodine. The oxidizing and pH-reducing effects of the acids help to permeate and break down cell walls. This provides a proven germicidal ability against pathogens such as *E. coli* and *Salmonella* in the presence of 50% organic material.



## Iodis®

Iodis disinfectant is a detergent disinfectant and no-rinse sanitizer for food contact surfaces. A sudsing iodine cleaner, deodorizer, disinfectant and sanitizer for use on farm premises. Iodis provides 1.75% titratable iodine, killing most odor causing bacteria and viruses that may cause disease or economic losses.

## Peraside

A peroxyacetic acid-based sanitizer, descaler, and disinfectant developed for the following uses: Terminal descaler of water lines to remove tough mineral and metal build up without clogging drinker nipples. Institutional/Industrial sanitizer and disinfectant for swine facilities. It is effective against bacteria, fungi, odor and algae.

## Peraside 15

EPA approved peroxyacetic acid-based microbiocide developed for cleaning and disinfecting poultry and livestock drinking water lines. This product can also be used for equipment sanitizing, slime and odor control in poultry and livestock drinking water lines, fruit and vegetable process water systems, animal housing facilities, and bacterial and algae control in wastewater treatment systems.

## COMPANION™ Hand Sanitizer

COMPANION Hand sanitizer is an alcohol based foaming hand sanitizer formulated to provide exceptional protection for today's veterinarian and food animal production locations. COMPANION hand sanitizer is dispensed as a thick, rich foam that dries instantly and eliminates inconvenient spills through precisely metered pumps. COMPANION hand sanitizer is recommended for use by production personnel and veterinary staff. It is ideally suited for personnel moving from farm to farm, room to room, and building to building. It can also be easily transported in vehicles and kept in areas where water is not readily available.

## COMPANION Disinfectant Wipes

COMPANION disinfectant wipes are a ready to use wipe that effectively cleans, disinfects and controls odor in one step. COMPANION disinfectant wipes clean by removing tough soils such as dirt, fecal material, blood, urine, and mildew leaving behind a fresh citrus scent. COMPANION disinfectant wipes formulation is nonabrasive and non-corrosive, even with repetitive use.



# Water Treatment Solutions

AquaPrime Activator • AquaPrime Trigger • Dyne-O-Might  
AquaPrime NeoKlor • Iodis • Peraside  
AquaPrime Peraside 15• Siloxycide



# Water Treatment Solutions

Managing water quality and quantity is one of the most overlooked best management practices in livestock production. It plays an important role in digestion and nutrient absorption, and is also essential for many physiochemical reactions needed for optimal growth, production, and reproduction.

To learn more about how NEOGEN can help improve your water quality, contact our water quality specialist today at [water@NEOGEN.com](mailto:water@NEOGEN.com).

Product	Active Ingredient	Use	Description	Item No.
<b>AquaPrime® Activator</b>	Hydrochloric Acid, Sulfuric Acid, Citric Acid, Copper Sulfate	Activation and pH Adjustment	5 gal Pail	142250
			55 gal Drum	142350
			275 gal Tote	142450
<b>AquaPrime Trigger</b>	Sulfuric Acid and Hydrogen chloride	Activation and pH Adjustment	5 gal Pail	480018/5
			55 gal Drum	480018/55
			275 gal Tote	480018/275
<b>Dyne-O-Might</b>	Iodine compound and propionic acid	pH Adjustment	5 gal Pail	480018/5
			55 gal Drum	480018/55
			275 gal Tote	480018/275
<b>AquaPrime NeoKlor</b>	7.5% sodium chlorite	Disinfection of livestock drinking water	5 gal Pail	480015/5
			55 gal Drum	480015/55
			275 gal Tote	480015/275
<b>Iodis®</b>	1.75% Iodine	Water Treatment	1 gal Jug	433300/1
			30 gal Drum	433300/30
			55 gal Drum	433300/55
<b>Peraside</b>	Peracetic acid and Hydrogen peroxide	Terminal water line cleaner and descaler	2.5 gal Pail	406047/2.5
			5 gal Pail	406047/5
			30 gal Drum	406047/30
			53.5 gal Drum	406047/55
<b>AquaPrime Peraside 15</b>	Peracetic acid and Hydrogen peroxide	Poultry and livestock drink water lines, animal housing premise, food contact surface and fruit and vegetable processing	2.5 gal Pail	480020/2.5
			5 gal Pail	480020/5
			55 gal Drum	480020/55
			330 gal Drum	480020/330
<b>Siloxycide®</b>	Silver nitrate and Hydrogen peroxide	Waterline cleaner and descaler in the presence of animals	1 gal Jug	480021/1
			30 gal Drum	480021/30



## Waterline Cleaning

### Peraside (terminal)

A peroxyacetic acid-based sanitizer, descaler, and disinfectant developed for the following uses: terminal descaler of water lines to remove tough mineral and metal build up without clogging drinker nipples. Institutional/Industrial sanitizer and disinfectant for swine facilities and animal housing. It is effective against bacteria, fungi, odor and algae.

### AquaPrime Peraside 15 (terminal)

AquaPrime Peraside 15 is an EPA approved peroxyacetic acid-based microbiocide developed for cleaning and disinfecting poultry and livestock drinking water lines. This product can also be used for equipment sanitizing, slime and odor control in poultry and livestock drinking water lines, fruit and vegetable process water systems, animal housing facilities, and bacterial and algae control in wastewater treatment systems.

### Siloxycide (animals present)

Siloxycide is the only EPA approved hydrogen peroxide and silver nitrate disinfectant for livestock drinking water lines. Approved for disinfection of watering equipment, feeding equipment, animal housing facilities and buildings, farm equipment, trucks, crates and troughs. Additionally, Siloxycide is approved for fogging applications.

## Water Treatment

### AquaPrime Neoklor

AquaPrime Neoklor is a 7.5% Sodium Chlorite solution that is for usage in potable water disinfection. AquaPrime Neoklor has numerous uses in potable water, can be utilized for food plant process, poultry process water, CIP disinfection, industrial cooling water, and wastewater systems. AquaPrime Neoklor is EPA approved and OMRI and NSF certified.

### Iodis

Iodis is an effective tool in the treatment of all types of livestock drinking water. A 1.75% titratable iodine solution, Iodis removes undesirable elements such as debris contained within the drinking water and drinking water lines. Iodis disinfectant kills most pathogens that may cause disease or economic losses in swine, poultry and livestock industries.



# Activation and pH Reduction

## BioSentry AquaPrime Activator

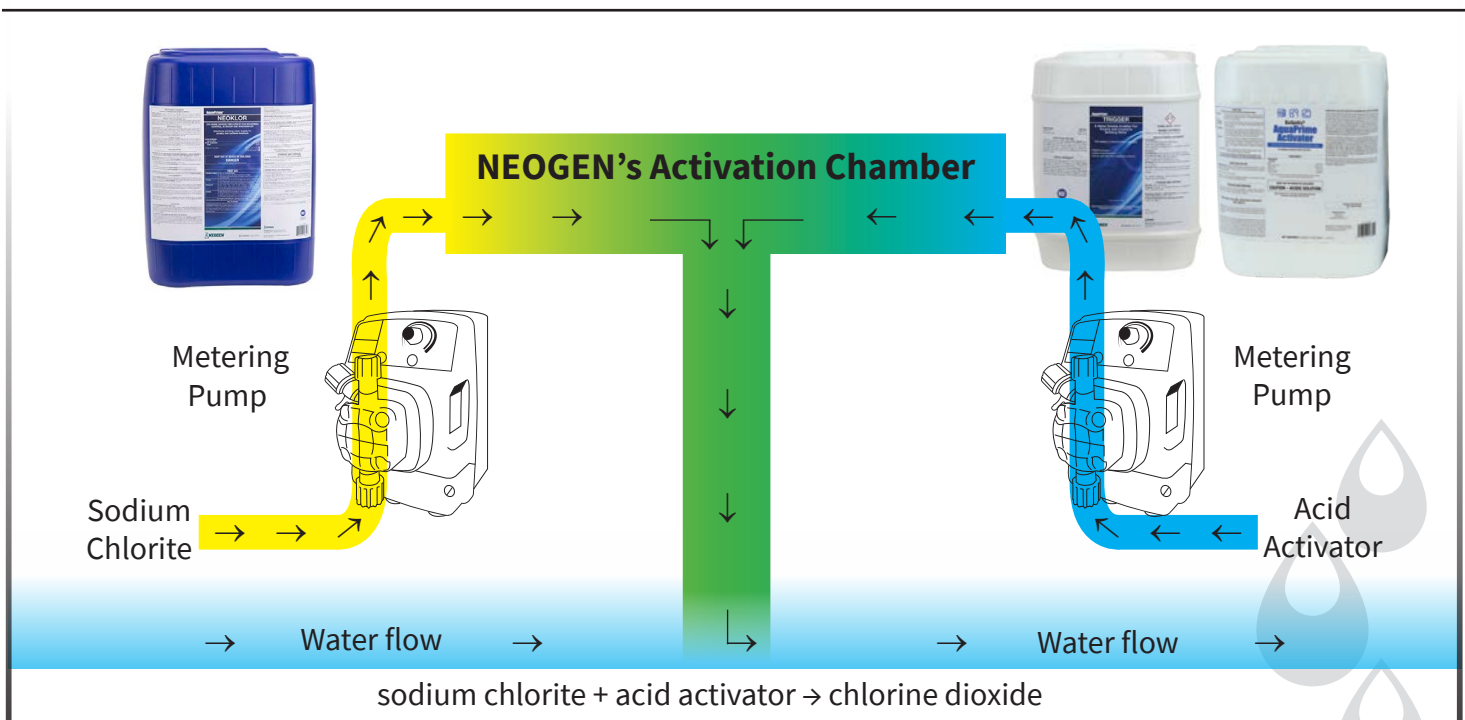
BioSentry AquaPrime Activator is a special blend of mineral and organic acids specifically formulated to activate stabilized chlorine dioxide for the disinfection of livestock drinking water. An easy 1 part activator to 2 parts 5% sodium chloride solution mix will give an over 90% conversion to free  $\text{ClO}_2$ . Efficient conversion creates a least-cost application when calculating treatment cost per gallon of water or per animal. Liquid is ready-to-use and includes a green color to indicate presence in injection lines to ensure proper proportioning. BioSentry AquaPrime Activator is OMRI and NSF certified.

## AquaPrime Trigger

AquaPrime Trigger is a water-soluble acidifier for poultry and livestock drinking water. AquaPrime Trigger is a GRAS proprietary blend of mineral acids formulated to reduce pH in drinking water on poultry and livestock farming operations. AquaPrime Trigger is NSF certified.

## Dyne-O-Might

Dyne-O-Might is a cleaner-disinfectant and ammonia neutralizer made up of a unique patented blend of acids and iodine. The oxidizing and pH reducing effect of the acids help to permeate and break down cell walls of disease causing pathogens on hard surfaces and in water lines. This provides a proven germicidal ability against pathogens such as *E. coli* and *Salmonella* in the presence of 50% organic material. Additionally, Dyne-O-Might is used for ammonia control. Formulated with feed-grade ingredients, it is safe for use in all areas of the animal agriculture facility including: nurseries, farrowing, breeding and gestation rooms, drinking water and boot baths.



# Rodent Control

CyKill • Ramik • Havoc • DeciMax • Judgement • Prozap

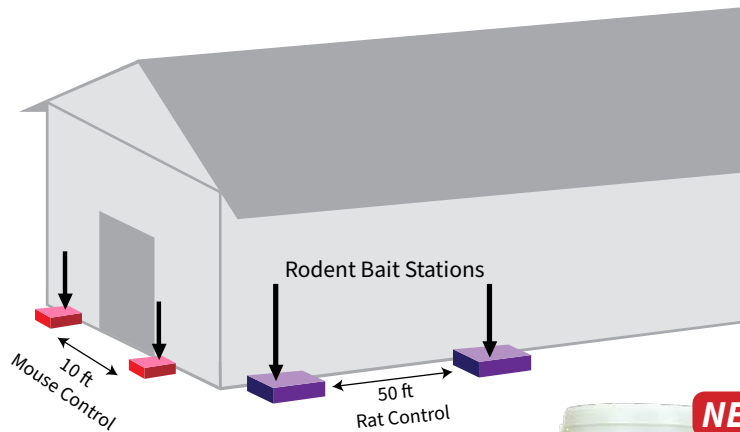




# Rodent Control

Rats and mice are estimated to cause \$30 billion per year in damages to barns and electrical equipment. They are also vectors of disease such as PRRS, PED, and ileitis, and can consume more than 20 pounds of feed per year on the farm. NEOGEN offers an extensive line of rodent control active ingredients, presentations and equipment to keep more money in your pocket. Through a 7-step baiting program, as demonstrated below, you can control rats and mice in and around your operation year-round.

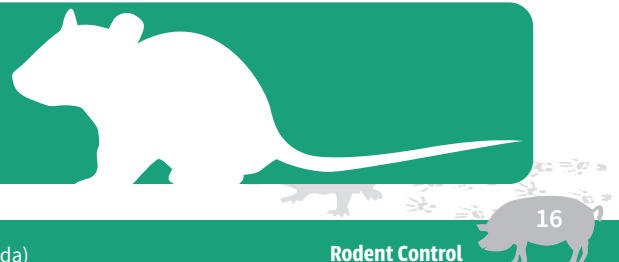
1. The baiting strategy will be planned according to rodent activity determined by a rodent audit or infrared camera surveillance system.
2. The number of bait stations can be increased in areas with heavy rodent activity (near food or water sources and nesting material).
3. All bait stations should have either a bar code ID or numbered for record keeping.
4. Place exterior bait stations 10' (3 m) from either side of entrance doors.
5. Place exterior bait stations 25-50' (15 m) apart for rat control.
6. Place bait stations 10' (3 m) apart for mice control.
7. Place interior bait stations on either side of entrance doors and 100' (30 m) apart along walls and curtains (away from animals).



Place bait stations 50' apart for rat control and 10' apart for mice control.



Call your NEOGEN rodent control expert to determine your rodent infestation with Night Hawk infrared surveillance system.



# Northern Rodenticide Rotation

Use **NEOGEN's** rotational baiting program and break the cycle of rodent anticoagulant resistance



**Use as a supplemental tool to your current Rotational Baiting Strategy**

For added protection year-round, use Prozap Tracking Powder



**JANUARY**

Sun	Mon	Tue	Wed	Thu	Fri	Sat
			1	2	3	4
5	6	7	8	9	10	11
12	13	14	15	16	17	18
19	20	21	22	23	24	25
26	27	28	29	30	31	

**FEBRUARY**

Sun	Mon	Tue	Wed	Thu	Fri	Sat
						1
2	3	4	5	6	7	8
9	10	11	12	13	14	15
16	17	18	19	20	21	22
23	24	25	26	27	28	29

**MARCH**

Sun	Mon	Tue	Wed	Thu	Fri	Sat
1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30	31				



**JULY**

Sun	Mon	Tue	Wed	Thu	Fri	Sat
			1	2	3	4
5	6	7	8	9	10	11
12	13	14	15	16	17	18
19	20	21	22	23	24	25
26	27	28	29	30	31	

**AUGUST**

Sun	Mon	Tue	Wed	Thu	Fri	Sat
						1
2	3	4	5	6	7	8
9	10	11	12	13	14	15
16	17	18	19	20	21	22
23	24	25	26	27	28	29
30	31					

**SEPTEMBER**

Sun	Mon	Tue	Wed	Thu	Fri	Sat
		1	2	3	4	5
6	7	8	9	10	11	12
13	14	15	16	17	18	19
20	21	22	23	24	25	26
27	28	29	30			



### Havoc®

Havoc® products combine brodifacoum, the strongest anticoagulant rodenticide available, with a special mixture of highly attractive bait ingredients along with patented food processing techniques. The result is a superior, single-feed rodenticide with a unique bait delivery system. Now available in a rodenticide bait, Havoc provides an excellent base for superior palatability. The meal bait product offers superior rodent acceptance as it contains food-grade ingredients, seeds and grains, which provide rodents a variety of textures and flavors.

### DeciMax®

NEOGEN's newest rodenticide bait offering contains Bromadiolone, a proven and effective second generation active ingredient. Rats, mice and meadow voles may consume a lethal dose in a single night's feeding, with the first dead rodents appearing four or five days after feeding begins. Product offering includes blocks, place packs and soft bait.

### CyKill™

Bromethalin was developed to combat a worldwide perceived problem of rodent resistance to warfarin-like anticoagulant rodenticides. Bromethalin is not an anticoagulant but a highly potent neurotoxin rodenticide that provides a lethal dose to rodents in a single feeding. Bromethalin attacks the central nervous system; rodents usually consume a lethal dose within a single night's feeding, with first dead rodents appearing within two days. Available in bait blocks or place packs.

Now available in a rodenticide bait, Cykill™ combines superior palatability with the proven active ingredient Bromethaline to control Norway rats, roof rats, and field mice in areas where competing food or feed sources are present. Also available as blocks and pellets.

### Judgement®

Judgement is available in 22 lb pails of soft bait formulated using high quality food grade ingredients. These high quality ingredients are what help make Judgement such a highly palatable and weatherable bait. Judgement is made without the use of wax for high performance in cold or hot weather.

# DeciMax®



## APRIL

Sun	Mon	Tue	Wed	Thu	Fri	Sat
			1	2	3	4
5	6	7	8	9	10	11
12	13	14	15	16	17	18
19	20	21	22	23	24	25
26	27	28	29	30		

## MAY

Sun	Mon	Tue	Wed	Thu	Fri	Sat
					1	2
3	4	5	6	7	8	9
10	11	12	13	14	15	16
17	18	19	20	21	22	23
24	25	26	27	28	29	30
31						

## JUNE

Sun	Mon	Tue	Wed	Thu	Fri	Sat
	1	2	3	4	5	6
7	8	9	10	11	12	13
14	15	16	17	18	19	20
21	22	23	24	25	26	27
28	29	30				

# CyKill™



# Havoc®



Use Judgement™ Soft Bait during this time frame as a complement to Havoc.



## OCTOBER

Sun	Mon	Tue	Wed	Thu	Fri	Sat
				1	2	3
4	5	6	7	8	9	10
11	12	13	14	15	16	17
18	19	20	21	22	23	24
25	26	27	28	29	30	31

## NOVEMBER

Sun	Mon	Tue	Wed	Thu	Fri	Sat
1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30					

## DECEMBER

Sun	Mon	Tue	Wed	Thu	Fri	Sat
		1	2	3	4	5
6	7	8	9	10	11	12
13	14	15	16	17	18	19
20	21	22	23	24	25	26
27	28	29	30	31		



## Prozap® Zinc Phosphide Tracking Powder

### Restricted Use Product

Zinc phosphide, a powerful acute rodenticide, is contained in all Prozap rodent bait formulations. The fast-acting baits are formulated with a special blend of processed grains that are especially appealing to rodents. Now with Prozap Zinc Phosphide Tracking Powder, producers can complete their supplemental baiting strategy. The active ingredient in Prozap Zinc Phosphide Tracking Powder is ingested when grooming, liberating toxic phosphine gas on contact with dilute acids present in the stomach, killing the rodent in a matter of hours. Since rodents groom themselves more frequently than a cat, the amount of grooming throughout the day makes Prozap Zinc Phosphide Tracking Powder the perfect tool for rodent control; especially when rodents have extensive food supplies or will not accept other baits.

Product	Description	Item No.
Prozap Zinc Phosphide Tracking Powder	25 lb Pail (RUP)	112846
Prozap Oat Bait	50 lb Bag (RUP)	0002980
Prozap 3/8" Pellets	50 lb Bag (RUP)	0077140
Prozap 1/8" Pellets	50 lb Bag (RUP)	0283390
Prozap Rodent Oat Bait	1 lb Bag	112855
Prozap Rodent Pellets	12 lb Pail	114600



## Rodenticides

Product	Active	Description	Item No.
CyKill™	Bromethalin	CyKill Blocks 86 x 0.75 Pouch (4 lb)	112825
		CyKill Blocks 9 lb Pail	112830
		CyKill Rodenticide Bait 4 lb Jug	112840
		CyKill Rodenticide Bait 12 lb Pail	112847
Havoc®	Brodicfacoum	Havoc Pellets 50 lb Bulk Box	116360
		Havoc 3/16" 40/2x50g/pk Pail	116372
		Havoc® XT Blok 10 lb Pail	116361
		Havoc® XT Blok 8 lb Pouch	116362
		Havoc® XT Blok 20 lb Pail	116369
		Havoc Attack 10 lb Pail	116393
		Havoc Attack 20 lb Pail	116394
		Havoc Meal Bait 25 lb Bag	116395
		Havoc Meal Bait 50 lb Bag	116396
Havoc Meal Bait 25 lb Pail	116398		
Ramik®	Diphacinone	Bait Station Ramik Disposable 2 pk Box	000600
		Bait Station Ramik Refillable Pouch 8 ct	000800
		Bait Station Ramik Refillable Pouch 16 ct	000900
		Ramik 3/16" Bulk 20 lb Bucket	116300
		Ramik 3/16" Bulk 50 lb Box	116303
		Ramik 1/2" 60x4 oz (15 lb) Bucket	116305
		Ramik 3/16" 45x43 g/pk Pail	116316
		Ramik 3/16" 300x43 g/pk Tub	116319



Ramik®	Diphacinone	Ramik Mini-Bars 640 x 1 oz (40 lb) Tub	116326
		Ramik Mini-Bars 800 x 1 oz (50lb)	116329
		Ramik Mini-Bars 64 x 1 oz Pouch	116331
		Ramik Mini-Bars 64 x 1 oz Pail	116332
		Ramik Bars 4 x 16 oz Box	116334
		Ramik 16 x 4 oz (4 lb) Nuggets PP Pouch	116341
		Ramik Mini-Bars 144 x 1 oz (9 lb) Pail	116345
		Ramik Mini-Bars 320 x 1 oz (20 lb) Pail	116350
		Ramik Oat Bait 30 lb Pail (Restricted Use Product)	116390
Judgement™	Difenacoum	Judgement Soft Bait 22 lb pail	112825
DeciMax®	Bromadiolone	DeciMax Soft Bait 8 lb Pail	116841
		DeciMax Blocks 9 lb Pail	116850
		DeciMax Soft Bait 22 lb Pail	116840
		DeciMax Place Packs 8 lb Pail	116845
		DeciMax Blocks 18 lb Pail	116855



## Mechanical

Product	Description	Item No.
Ramik®	Bait Station Multiplex Each Bulk (6/cs)	000404
	Bait Station Standard Bulk (12/cs)	000500
	Bait Station, E-Z Baiter	000510
	Bait Station Rodent Cafe 1/bx	000560
	Key, Rodent Cafe 15 pk	000565
	Rod, Rodent Cafe 30 pk	000570
	Bait Station Rodent Cafe Each w/Key w/30 Rods (6/cs)	000660
	Ramik Glue Trays Mice 4 pk	116220
	Ramik Mouse Snap Traps Plastic 2 pk	116221
	Ramik Glue Trays Rats 2 pk	116230
	Ramik Rat Snap Trap Plastic 1 pk	116231
	Ramik Mouse/Insect Glue Boards 4 pk	940
	Ramik Multi-Catch Bait Station Retail	945
	Ramik Multi-Catch Bait Station Bulk	945B



# Insect Control

Aerosols • Dusts • Liquids • Mechanicals • Rockwell Products



# Insect Control

Swine operations are known safe places for unwanted flies and other pests. Biting, flying and crawling insects can spread diseases, contaminate feed and water, and even cost you marketing dollars. With NEOGEN's robust line of insect control products, you can focus more on supplying families with healthy meat rather than your insect problem. Reduce your operation's physical and fiscal stresses with insect control from NEOGEN.

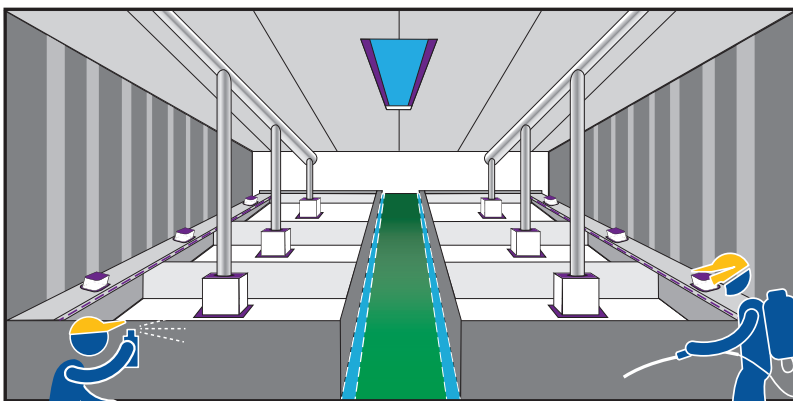
Product	Description	Item No.
<b>Aerosols</b>		
Prozap LD-44Z Insect Fogger	20 oz can	1453510
	25 oz can	1450010
Prozap Dy-Fly <sup>®</sup> Dairy Aerosol	20 oz can	0693510
Prozap CT-75 Dairy Aerosol	26 oz can	0720210
CT-55 PC Dairy Aerosol	25 oz can	0970010
Prozap Screw Worm Aerosol (w/dye)	12 oz can	1002520
Prozap LD-44T <sup>™</sup> Promist'r Refill	6.5 oz can	0073010
ProMist'r II Dispenser	Dispenser	CT89500
Prozap Air Freshener	Baby Fresh 6.1 oz can	OCB3010
	Bouquet 6.1 oz can	OCB3040
	Citrus 6.1 oz can	OCB3020
	Mango 6.1 oz can	OCB3030



Prozap Dy-Fly, CT-75, LD-44Z

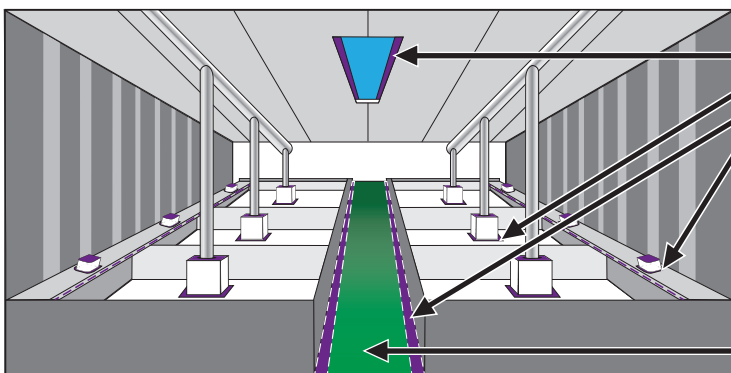
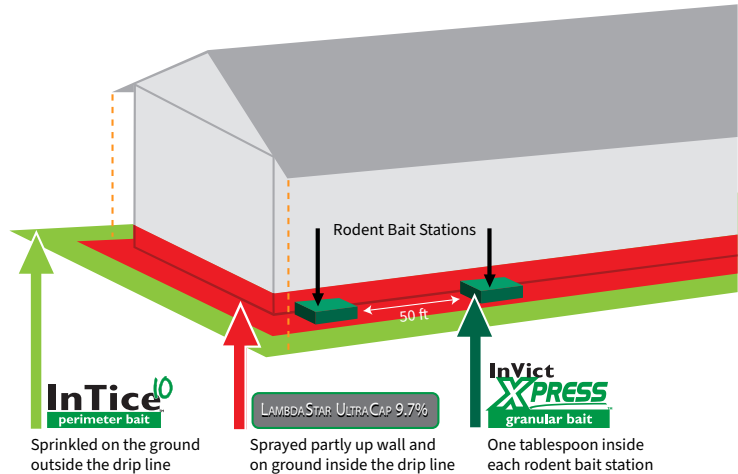


ProMist'r Dispenser and Air Fresheners



**Can be sprayed in barns and pens with pigs present**

**Can be sprayed on walls, gates, equipment and curtains**



**InVict Gold**  
cockroach gel

**InVict**  
insect paste

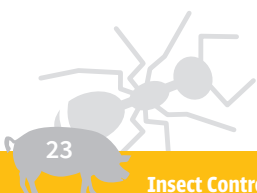
Applied in areas where roaches congregate  
**Rotate every 3 months**

**InVict Xpress**  
granular bait

Sprinkle along edges of walkways and walls



Product	Description	Item No.
<b>Dust</b>		
Prozap Insectrin® Dust	12.5 lb 2-Pack	1499510
Prozap Insectrin Dust Shaker	2 lb shaker	1499530
Prozap Garden & Poultry Dust	2 lb shaker	1499540
<b>Liquid</b>		
Evergreen Pro 60-6	32 oz	5069510
Prozap Aqueous Fly Spray	1 gal	1217010
	2.5 gal	1216010
Prozap Backrubber & Pour-On	2.5 gal	0896010
Prozap Backrubber & Pour-On Xtra	2.5 gal	0966010
Prozap Beef & Dairy RTU	1 gal	1147010
	2.5 gal	1146010
	55 gal	1144020
Prozap Fly-Die Defense™	32 oz	1067520
Prozap Fly-Die GPS	1 gal	1486520
	32 oz	1487520
Prozap Fly-Die Ultra™ Equine Spray	32oz	1887530
Prozap Insectrin 1% Pour-On Xtra	1 gal	1517010
	2.5 gal	1516010
	55 gal	1514020
Prozap Insectrin CS	16oz	0518010
	55 gal	0514020
Prozap Insectrin X Concentrate	8 oz	1038510
	1 gal	1037010
	32 oz	1037510
	55 gal	1035010
PyGanic Livestock and Poultry Spray	32 oz	7047510
Prozap Vapona 400E (HAZMAT) - RUP	2.5 gal	0176010





Mechanical		
Catchmaster GLOstik Flying Insect Trap		908
Catchmaster Gold Stick w/Bait 10.5"		912
Catchmaster Gold Stick w/Bait 10.5"	6 pk TSC	912-19
Catchmaster Fly Ribbon	Bulk 96 Tubes	9144B4
	4 pk	9144M4
	4 pk TSC	9144M4-19
Catchmaster Spider Web Fly Glue Trap		930
Catchmaster Giant Fly Trap Roll		931
Catchmaster Giant Fly Trap Roll-TSC		931-19
Catchmaster Giant Fly Glue Trap	48 pk	948
Catchmaster Gold Stick w/Bait 24"		963
Catchmaster Gold Stick w/Bait 24"-TSC		963-19
Catchmaster Fly Bag Trap		975-12
Rockwell		
EcoVia Botanicals	16 oz	EVEC016
	64 oz	EVEC064
	55 gal	EVEC055
EcoVia WD	2 lb	EVWD002
	8 oz	EVWD008
InVict AB Insect Paste	300 g Syringe	IABP300
Bio Cleaner	5 gal	IBCC005
InVict Gold Cockroach Gel	300 g Syringe	IGCG300
InTice 10 Perimeter Bait	40 lb Carton	ITPB040
InVict Xpress Granular Bait	25 lb Carton	IXGB025
LambdaStar Ultra Cap 9.7%	16 oz	LGLU016



908



912R4



931



9144



975-12



EVWD002, EVWD008



IABP300



IGCG300



LGLU016



# Reproduction

Gloves • Bottles • Marking Paints • Catheters

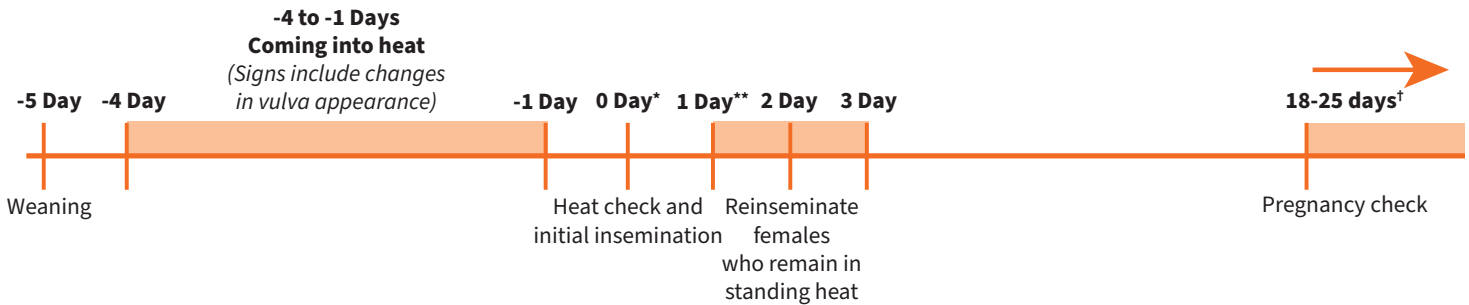


# Reproduction

Reproductive success can be achieved by a number of different methods. Choosing for farrowing rate, litter size, and lactation quality from your maternal line may give you more pigs per sow per year. And when selecting from a terminal line, you may select for average daily gain, feed efficiency, and meat quality. However, with the perfect genetic makeup, do you have the right tools to create the perfect pig?

With NEOGEN's line of reproductive products, producers can be assured that their genetic selection carries through to the next litter. No matter how your operation is managed, NEOGEN can provide you with reproductive expertise and instruments to cater to your needs including natural service, artificial insemination (AI), and post-cervical artificial insemination (PCAI).

**Estrus is 21 days.**



**\*0 day = heat detection and standing heat** (boar exposure was successful, she is now standing rigid, her ears are erect and vulva may be showing signs of arousal)

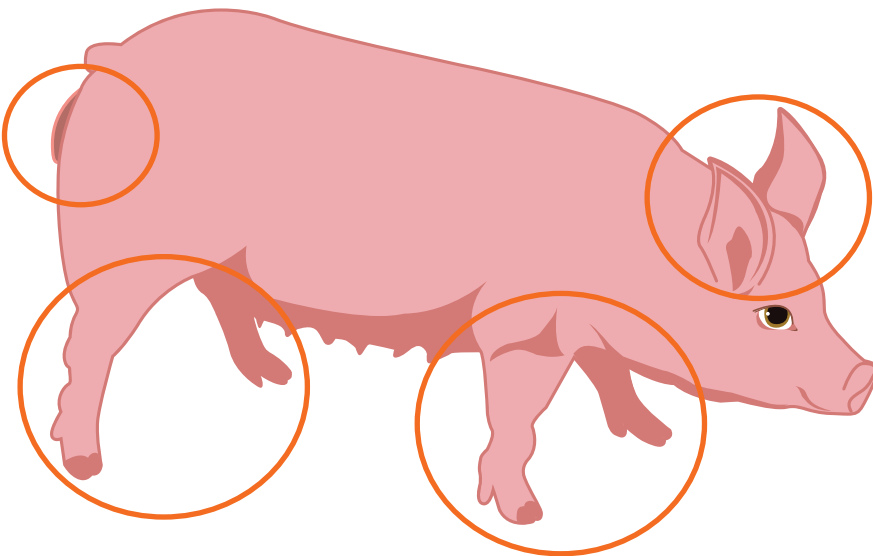
*Once standing heat is observed, inseminate within 15-50 minutes after boar exposure.*

*If the sow remains in standing heat, reinseminate every 24 hours.*

*If the sow does not show signs of standing heat, the producer will need to determine if the sow should be bred or culled.*

\*\*When heat checking, if the inseminated sow returns to estrus, she will exhibit standing heat. The producer will need to determine if the sow should be rebred or culled.

†If the sow does not return to estrus between 18-25 days post breeding, then there is a 75-85% chance she is pregnant and should be moved to the gestation area.



*Example of sow in standing heat. Ears are erect, legs are rigid and vulva is swollen.*

### Semen Collection

You invest a lot into high quality semen, so don't risk its integrity with products that are known to be spermicidal. During semen collection, it is critical that whenever the semen is exposed to the external environment that it does not come into contact with chemicals that could be spermicidal. This very reason has lead Neogen to develop and market non-spermicidal gloves, semen bottles, and shoulder-length gloves.

Product	Description	Item No.
Vinyl PF Non-Spermicidal Gloves	100/bag, Wrist Length, Biosecure Double Bagged	AT550PF-M
		AT550PF-L
		AT550PF-XL
		AT550PF-XXL
PolyShield™ 0.8 mil Purple*	200/Box, Shoulder Length	PS151
Poly-Sleeve® 1.1 mil Buff*	100/pk, Shoulder Length	P100
Poly-Sleeve 1.25 mil Blue*	100/pk, Shoulder Length	P125
Poly-Sleeve Sterile*	12/pk, Shoulder Length	SP100 SP125
	12/pk, Small Hands	SP125-S
Semen Bottle 100 mL	Break-Away, Multi-Color Tip and Caps 5/pk, Easy to Squeeze	334909



334909

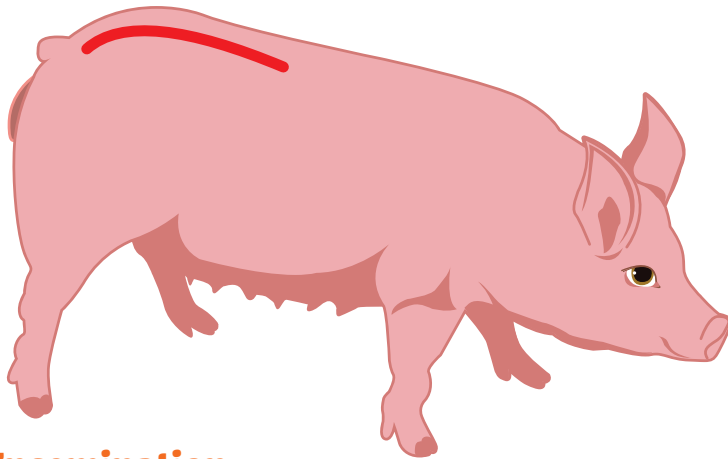
\* Can also be used in Farrowing Assistance in the instance that sleeving is needed.



## Heat Check

After a teaser boar has passed through the barn, identify the females in standing heat by checking whether they are locked up, with rigid front and back legs, perked ears, and a vulva that is red, swollen, or has mucosal discharge. Once the sows that are in standing heat have been identified and marked, you can then move onto the insemination process.

Product	Description	Item No.
Prima® Retractable Marking Sticks	Black	333643
	Blue	333681
	Purple	333704
	Fluorescent Pink	333711
	Red	333667
	Orange	333650
	Yellow	333698
	Green	333674



*Example of a marked sow in standing heat*

## Insemination

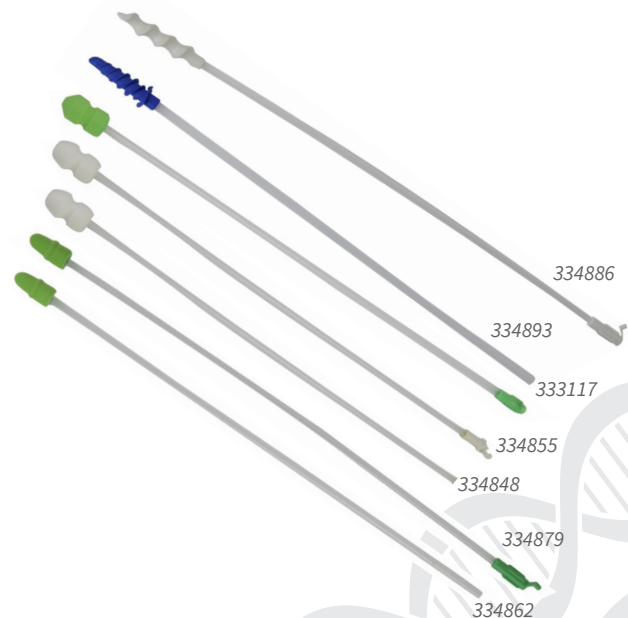
### Traditional Artificial Insemination (AI)

Traditional AI has been used since the 1990s, allowing producers to select for genetic traits to produce leaner carcasses. Knowing how the female reproductive tract impacts the physiology of the sperm cell, producers were able to bypass the initial cervical hurdles by using less semen and fewer boars than natural services.

#### Advantages of AI:

- Sanitation less of a concern
- Higher volume of extender reduces temperature fluctuation

Product	Description	Item No.
Spiral White	With Handle and Plug	334886
Spiral Blue	Without Handle and Plug	334893
Green Sow	With Handle and Plug	333117
White Foam	With Handle and Plug	334855
	Without Handle and Plug	334848
Green Gilt	With Handle and Plug	334879
	Without Handle and Plug	334862



### Post-Cervical Artificial Insemination (PCAI)

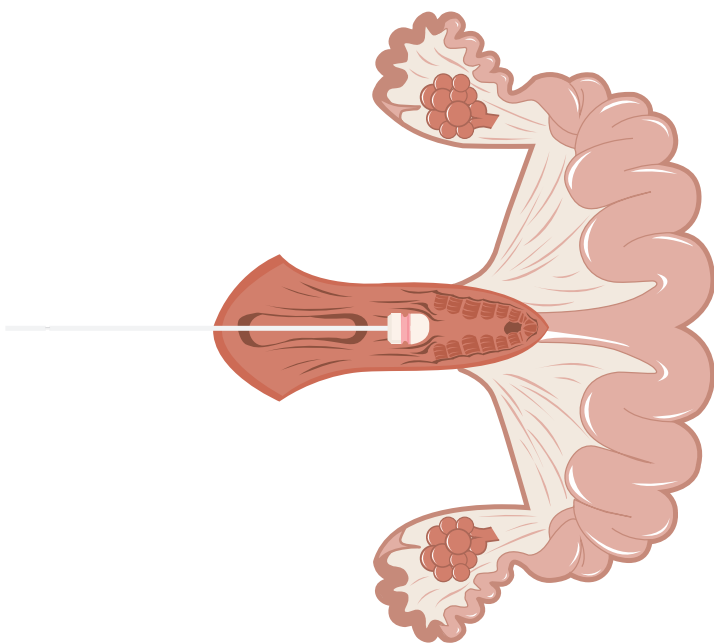
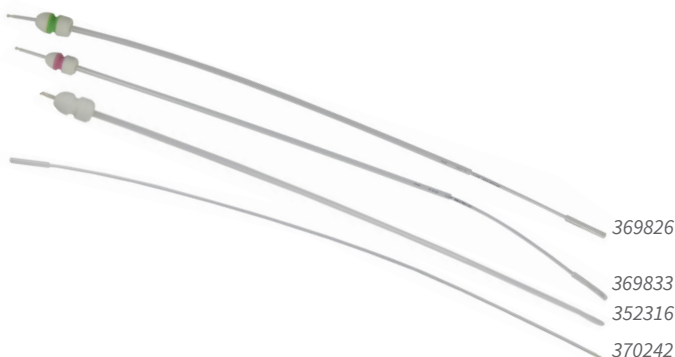
PCAI is used to capture superior genetics in your swine herd by selecting for improved growth rates, feed efficiency, and carcass quality while delivering less sperm per insemination. With NEOGEN’s PCAI catheters, we can help combine those superior genetics with little to no hindrance from the sow’s reproductive tract.

Keeping biosecurity in mind, NEOGEN’s PCAI catheters are all preassembled and packaged in an easy-tear bag to prevent catheters from spilling out upon opening. Furthermore, when removing the catheters from the bag, the inner rod will not slip out of the outer protective catheter, helping to maintain a sanitary product prior to insemination. The unique design of NEOGEN’s PCAI catheters also allows the breeding technician to feel when the inner rod is flush with the outer rod, keeping out the guesswork.

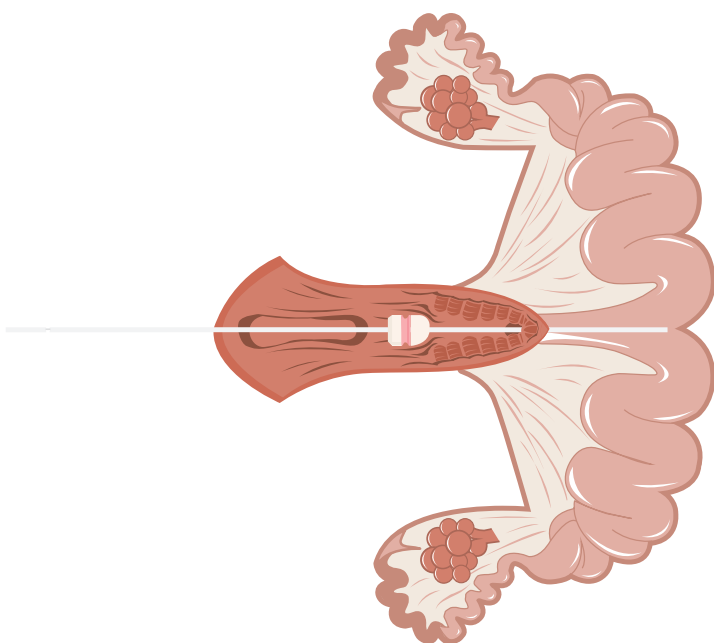
#### Advantages of PCAI:

- Fewer boars per same number of sows
- Finer selection of higher estimated breeding value (EBV) boars
- Increased production performance in finishing pigs
- Fewer sperm cells, less extender, less semen

Product	Description	Item No.
Green Gilt	Multi-colored Green/White Foam Catheter with Printed Lot number, depth indicator, and port direction	369826
Pink Sow	Multi-colored Pink/White Foam Catheter with Printed Lot, depth indicator, and port direction	369833
White Foam	Standard White Foam Catheter	352316
Inner Rod Only	PCAI Inner Rod for easy conversion of Traditional AI catheters	370242



*AI Catheter in cervix*



*PCAI Catheter in cervix*

# Needles

Ideal D3 Needles • Durable Needles  
Aluminum Hub Needles • Poly Hub Needles



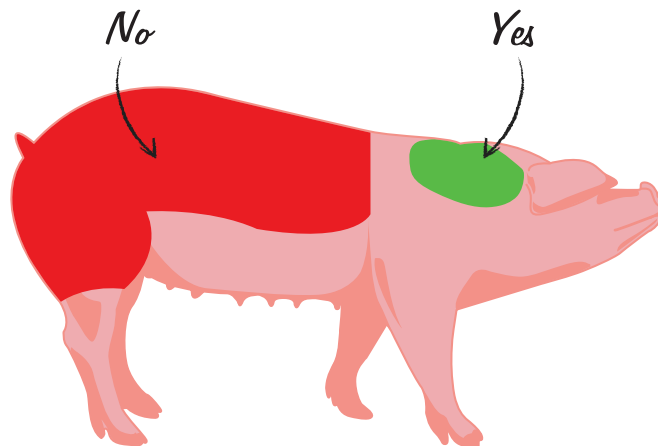
# Needles

## Ideal D3™ Needles. Durable. Detectable. Dependable.

Broken needles and needle fragments are not new to the livestock industry. For as long as we have been treating and vaccinating with intramuscular, subcutaneous, or any other route of administration that requires needle usage, foreign objects making it to the consumer have been a point of concern.

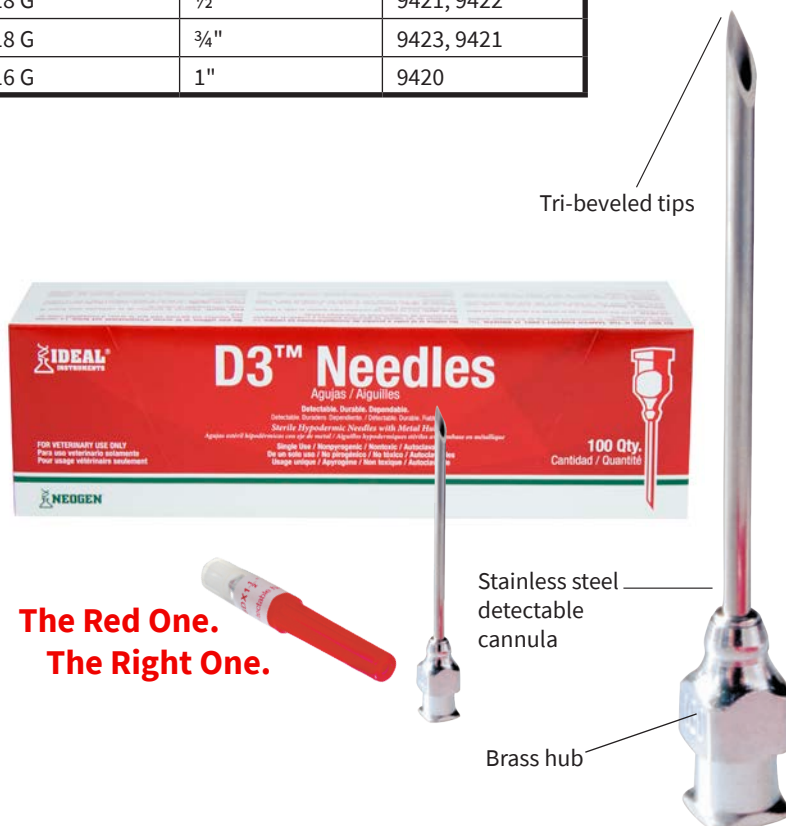
Consumer involvement in livestock production continues to drive how the industry operates. We are not the same as we were two decades ago and we will not be the same twenty years from now. Antibiotic use, growth hormones, bovine spongiform encephalopathy, foodborne diseases, and even gestation crates have been raising needle-related concerns with media outlets. Measures have been put into place to help ensure broken needles do not become another publicized event, but compliance is key in preventing this from occurring. Line speed detection, durable and detectable needles, and permanent marking of pigs are just a few ways to help reduce consumer concern.

Countries around the world (including Canada, Denmark, and France) are requiring producers to use detectable needles to respond to consumer demands. Though it is not a federal requirement in the U.S., pork being exported to those countries may require proof of detectable needle use. Some large packers and processors in the U.S. have started to request producers to demonstrate needle usage throughout the entire life of the pig. A broken needle during initial piglet processing may not remain in the same place when the pig is grown to market size, thus, stakeholders are asking for detectability compliance at day one of age. To see the recommended needle size and length, please refer to the chart below.



RECOMMENDED NEEDLE SIZES AND LENGTHS FOR SWINE					
Age of Pig	Intramuscular (IM)		Subcutaneous (SQ)		Item No.
	Needle Gauge	Needle Length	Needle Gauge	Needle Length	
Baby pigs	20 G	½"	20 G	5/8"	9412AL
Nursery pigs	18 G	¾" or 5/8"	18 G	½"	9421, 9422
Finishing pigs	18 G	1"	18 G	¾"	9423, 9421
Breeding stock	16 G	1 ½"	16 G	1"	9420

Detectable Needles	
Description	Item No.
NDL D3 AH 20 G x 1/2" Detectable HP 100/bx	9412AL
NDL D3 AH 20 G x 1" Detectable HP 100/bx	9411AL
NDL D3 AH 20 G x 1.5" Detectable HP 100/bx	9430AL
NDL D3 18 G x 1/2" Detectable HP 100/bx	9428
NDL D3 18 G x 5/8" Detectable HP 100/bx	9422
NDL D3 18 G x 3/4" Detectable HP 100/bx	9421
NDL D3 18 G x 1" Detectable HP 100/bx	9423
NDL D3 18 G x 1.5" Detectable HP 100/bx	9424
NDL D3 16 G x 5/8" Detectable HP 100/bx	9415
NDL D3 16 G x 3/4" Detectable HP 100/bx	9416
NDL D3 16 G x 1" Detectable HP 100/bx	9420
NDL D3 16 G x 1.5" Detectable HP 100/bx	9417
NDL D3 AH 14 G x 1" Detectable HP 100/bx	9418AL
NDL D3 AH 14 G x 1.5" Detectable HP 100/bx	9419AL





## Standard/Non-Detectable Needles

Product	Description	Item No.
<b>Aluminum Hub Needles</b>		
NDL 20 G x 1" AH	100/Box	9413AL
NDL 20 G x 1 ½" AH	100/Box	9414AL
NDL 18 G x 5/8" AH	100/Box	9407AL
NDL 18 G x 3/4" AH	100/Box	9408AL
NDL 18 G x 1" AH	100/Box	9409AL
NDL 18 G x 1 ½" AH	100/Box	9410AL
NDL 16 G x 5/8" AH	100/Box	9403AL
NDL 16 G x 3/4" AH	100/Box	9404AL
NDL 16 G x 1" AH	100/Box	9405AL
NDL 16 G x 1 ½" AH	100/Box	9406AL
NDL 14 G x 1" AH	100/Box	9400AL
NDL 14 G x 1 ½" AH	100/Box	9401AL
NDL 14 G x 2" AH	100/Box	9402AL
<b>Durable Needles</b>		
NDL 20 G x ½" Premium SS	12 pk	1240
NDL 18 G x ½" Premium SS	12 pk	1230
NDL 18 G x 3/4" Premium SS	12 pk	1231
NDL 18 G x 1" Premium SS	12 pk	1232
NDL 18 G x 1 ½" Premium SS	12 pk	1233
NDL 16 G x ½" Premium SS	12 pk	1220
NDL 16 G x 3/4" Premium SS	12 pk	1221
NDL 16 G x 1" Premium SS	12 pk	1222
NDL 14 G x ½" Premium SS	12 pk	1210
NDL 14 G x 3/4" Premium SS	12 pk	1211
NDL 14 G x 1" Premium SS	12 pk	1212
NDL 14 G x 2" Premium SS	12 pk	1214
NDL 12 G x 1" Premium SS	12 pk	1202
NDL Transfer	6 pk	1280
<b>Poly Hub Needles</b>		
NDL 25 G x 5/8" PH	100/Box	9399
NDL 22 G x 3/4" PH	100/Box	9390
NDL 22 G x 3/4" PH Soft Pack	100/Box	9390K
NDL 22 G x 1" PH	100/Box	9395

NDL 20 G x ½" PH	25 pk	9362
NDL 20 G x 3/4" PH	100/Box	9365
NDL 20 G x 3/4" PH	5 pk	9367
NDL 20 G x 1" PH	100/Box	9370
NDL 20 G x 1" PH	5 pk	9372
NDL 20 G x 1 ½" PH	100/Box	9375
NDL 20 G x 1 ½" PH Soft Pack	100/Box	9375K
NDL 20 G x 1 ½" PH	5 pk	9373
NDL 18 G x 3/4" PH	100/Box	9340
NDL 18 G x 1" PH	100/Box	9345
NDL 18 G x 1 ½" PH	100/Box	9350
NDL 18 G x 1 ½" PH	5 pk	9351
NDL 16 G x ½" PH	100/Box	9319
NDL 16 G x ½" PH	5 pk	9318
NDL 16 G x 1" PH	100/Box	9325
NDL 16 G x 1 ½" PH	100/Box	9330



# Syringes

Color-coded • Prima Marc BMV • Prima Marc Line Feed  
Durable and Disposable Syringes • Drenchers • Syringe Accessories • automated



## Full Biosecurity Injector Program

Have you ever walked through the barn while your vaccination crew was processing your herd to find out that they had been administering the wrong product to the wrong unit? Or, finished treating a group of sick pigs and come to find you've either under- or overdosed because the adjuster shifted? Having too much or too little product at the end of the day can impact your operation in a serious way if mortality increases or you have to drop another \$500 on another bottle.

NEOGEN's Full Biosecurity Injector (FBI) Program can minimize dosing inaccuracies and labor errors through the use of dosage-specific colored collars.

The FBI Program combines precision dosing and compliance, and can make the injection process easy, effective, and efficient.

Much as the color system helps producers identify needle gauges, the Full Biosecurity Injector transcends language barriers and makes the quality control process simple and visual.

Simplifying the injection process is key to achieving dosing accuracy and compliance. With herd health protection being dependent on accurate dosing of vaccines and medications, overdosing and wasted product can have a huge impact on an operation's bottom line.

Bottle Mount Vaccinator		
Size	Color	Item No.
0.15 mL	Blue	369239
0.3 mL	Orange	369253
0.5 mL	Platinum	369277
1 mL	Red	369284

Line Feed Vaccinator		
Size	Color	Item No.
1 mL	Red	369291
2 mL	White	369307
5 mL	Yellow	369314



## Durable Speed Syringes

### Prima Marc™ Vaccinators

The Prima Marc™ simultaneously marks and injects the animal, all in a one-handed movement. Packed with soft medical grade tubing, hose armor springs, metal luer lock needle nut, and Uni-Lock Draw-Off.

Prima Marc Bottle Mount Vaccinator	
Adjustable Dose	
Size	Item No.
0.5 mL	366108
1.0 mL	366115
2.0 mL	366122
5.0 / 6.0 mL	366139

Prima Marc Vaccinator			
Adjustable Dose		Fixed Dose	
Size	Item No.	Size	Item No.
0.5 mL	351968	0.5 mL	351678
1.0 mL	351685	1.0 mL	352019
2.0 mL	334039	2.0 mL	339812
5.0 / 6.0 mL	334053		



### Bottle Mount Vaccinator

Packed with three bottle collars (20 mm, 30 mm, 33 mm), 100 mL Fast Fit, 250 mL/30 mm Fast Fit and metal luer lock needle nut. Now packaged in premium box designed for shelves and for hanging.

Adjustable Dose	
Size	Item No.
0.3 mL	351241
0.5 mL	332370
1.0 mL	341112
2.0 mL	206558
5.0 / 6.0 mL	206657

Fixed Dose	
Size	Item No.
1.0 mL	341129
2.0 mL	339591



### Line Feed Vaccinator

Packed with soft medical grade tubing, hose armor spring, metal luer lock needle nut, and Uni-Lock Draw-Off. Now packaged in premium box designed for shelves and for hanging.

Adjustable Dose	
Size	Item No.
0.5 mL	351777
1.0 mL	349491
2.0 mL	205803
5.0 / 6.0 mL	206008

Fixed Dose	
Size	Item No.
0.5 mL	351784
1.0 mL	351722
2.0 mL	351012



Product	Item No.
<b>Durable Syringes</b>	
Syringe Safe-T-Flex 42" 10 cc	S100
Syringe 10 cc Barrel w/Nut	SR100-N
Syringe 10 cc O-Ring	SR101-N
Syringe Safe-T-Flex 42" 20 cc	S200
Syringe Nylon 10 cc	9810
Syringe Nylon 20 cc	9812
Syringe Nylon 30 cc w/Dose Pipe	9813
Syringe Nylon 30 cc	9814
Syringe Nylon 50 cc	9816
Syringe 50 cc MegaShot™	1000
Syringe 25 cc Prima-Shot™ Repeater	377210
Syringe 50 cc Prima-Shot™ Repeater	367723
Syringe 50 cc Pro-Shot™ II Aluminum	1009



S200



367723



9813



1000



1009



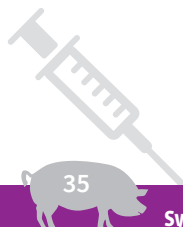
9812



9810



9816



Prima Value Vaccinator Adjustable Dose	
Size	Item No.
1.0 mL	351739
2.0 mL	212757
5.0/6.0 mL	213655
Prima Value Vaccinator Fixed Dose	
Size	Item #
1.0 mL	351746
1.5 mL	367754
2.0 mL	366191
Prima Value Vaccinator Adjustable with Draw-off Caps	
Size	Item #
0.5 mL	359698
1.0 mL	359704
2.0 mL	359711
5.0/6.0 mL	359728
Prima Value Bottle Mount Vaccinator Adjustable Dose	
Size	Item #
0.3 mL	351906
0.5 mL	343413
1.0 mL	356352
2.0 mL	344762
5.0/6.0 mL	343444
15 mL	371126
Prima Value Bottle Mount Vaccinator Fixed Dose	
Size	Item #
0.5 mL	351937
1.0 mL	344724
2.0 mL	361004

Vaccinator & Injector	Premium Line Includes	Value Line Includes	Value Line with Draw-Offs
Packaging	Premium Retail Box	Heat Sealed Bag	Heat Sealed Bag
Handle Color	Blue	Gray	Gray
Draw-Off	Unilock Draw-Off	None	20 mm, 30 mm, 33 mm slip Draw-Offs
Tubing	Soft Medical Grade	Soft Medical Grade	Soft Medical Grade
Needle Nut	Metal	Metal	Metal

BMV	Premium Line Includes	Value Line Includes
Packaging	Premium Retail Box	Heat Sealed Bag
Handle Color	Blue	Gray
Bottle Collars	20 mm, 30 mm, 33 mm	20 mm
Fast Fit	100 mL, 250 mL	100 mL
Needle Nut	Metal	Metal



Product	Item No.
<b>Syringe Accessories</b>	
VAC-PAC Medicine Holder Hip Hugger Lg 500-100 mL	120304
VAC-PAC Medicine Holder On Arm Lg 500-100 mL	120007
VAC-PAC Medicine Holder Hip Hugger Med 250 mL	120359
VAC-PAC Medicine Holder On Arm Med 250 mL	120052
VAC-PAC Medicine Holder Hanging Lg 500-100 mL	120151
VAC-PAC Medicine Holder Hanging Med 250 mL	120205
Back Pack 1 L w/Transit Cap/Stepped Cap/Hang Strap (Prima)	341662
Back Pack 2.5 L w/Transit Cap/Stepped Cap/Hang Strap (Prima)	341679
Cleaning Solution 250 mL (Prima)	341341
Prima Food Grade Lubrication Oil, 2 oz bottles	338013
1" Sterimatic w/Needle & Single Stericap Green	357038
Sterimatic Caps (Prima)	358929
Prima Mist Sprayer	353597
Prima Needle Guard	368089



VAC-PAC Hip Hugger



VAC-PAC On Arm



Back Pack



VAC-PAC Hanging

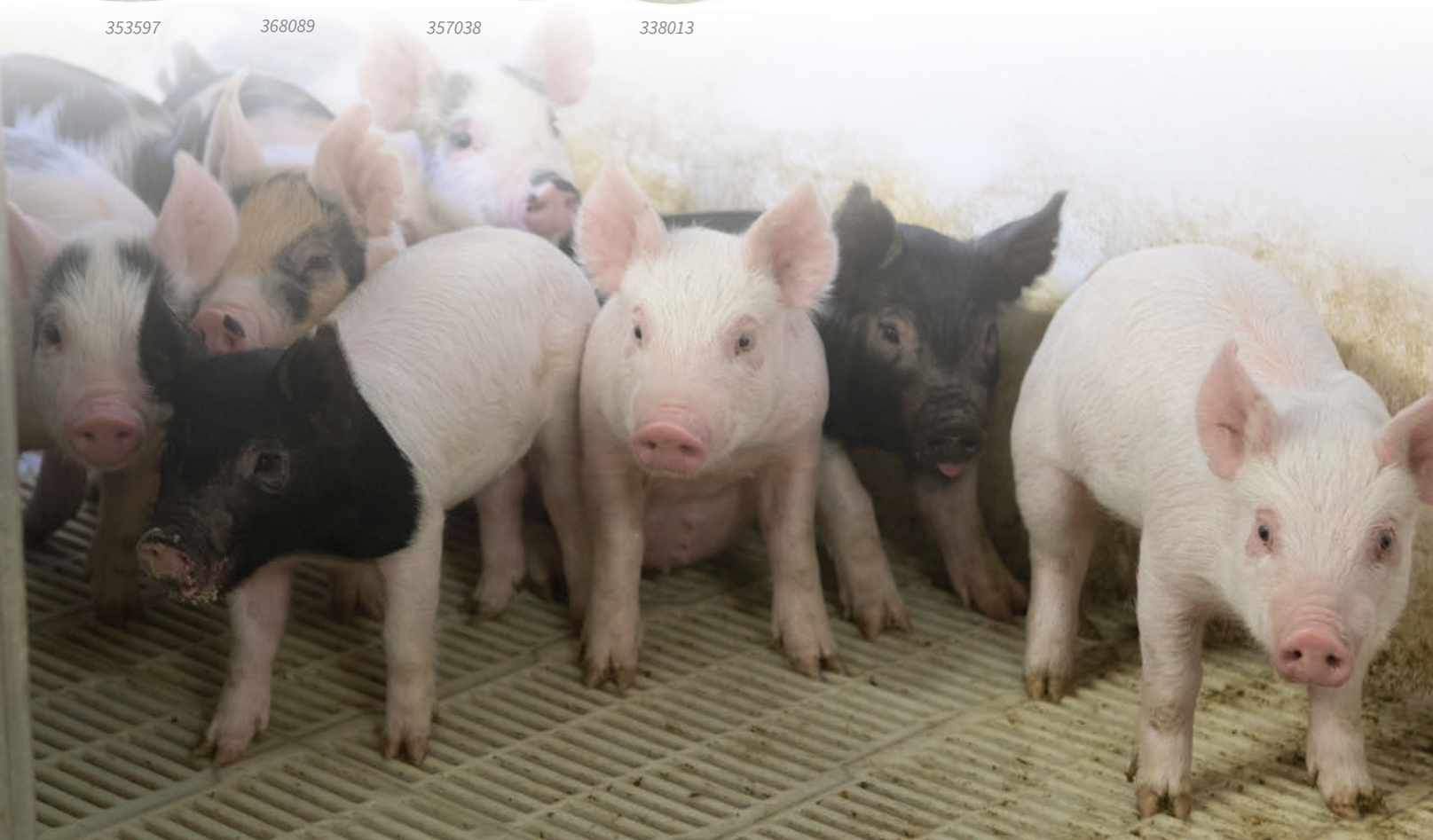


353597

368089

357038

338013



<b>Disposable Syringes</b>	
<b>1 CC Syringes</b>	
Syringe 1 CC Luer Slip w/25 G x 5/8" 100/Box SP	9279
<b>3 CC Syringes</b>	
Syringe 3 CC Luer Lock Disp 100/Box HP	8875
Syringe 3 CC Luer Lock Disp 100/Box SP	9170
Syringe 3 CC Luer Lock w/22 G x 3/4" 100/Box SP	9284
Syringe 3 CC Luer Lock w/22 G x 3/4" 100/Box HP	8865
Syringe 3 CC Luer Lock w/20 G x 1 1/2" 100/Box HP	8878
Syringe 3 CC Luer Lock w/20 G x 1" 100/Box HP	8877
Syringe 3 CC Luer Slip Disp 100/Box HP	8861
Syringe 3 CC Luer Slip Disp 100/Box SP	9100
Syringe 3 CC Luer Lock 6 pk SP	9263
Syringe 3 CC Luer Slip w/22G x 3/4" 100/Box HP	8864
Syringe 3 CC Luer Slip w/22G x 3/4" 100/Box SP	9210
<b>6 CC Syringes</b>	
Syringe 6 CC Luer Lock Disp 50/Box HP	8882
Syringe 6 CC Luer Lock Disp 100/Box SP	9171
Syringe 6 CC Luer Slip Disp 50/Box HP	8881
Syringe 6 CC Luer Slip Disp 100/Box SP	9110
Syringe 6 CC Luer Lock 6 pk SP	9264
<b>12 CC Syringes</b>	
Syringe 12 CC Luer Slip Disp 80/Box HP	8883
Syringe 12 CC Luer Lock Disp 100/Box SP	9172
Syringe 12 CC Luer Lock Disp 80/Box HP	8885
Syringe 12 CC Luer Slip Disp 100/Box SP	9120
Syringe 12 CC Luer Lock w/18 G x 1" 80/Box HP	8886
Syringe 12 CC Luer Lock w/18 G x 1 PH 100/bx SP	9287
<b>20 CC Syringes</b>	
Syringe 20 CC Luer Slip 50/Box HP	8889
Syringe 20 CC Luer Lock 4 pk SP	9266
Syringe 20 CC Luer Lock Disp 50/Box SP	9173
Syringe 20 CC Luer Lock 50/Box HP	8890
Syringe 20 CC Luer Lock Disp Single	9173-1
Syringe 20 CC Luer Slip Disp 50/Box SP	9130
<b>35 CC Syringes</b>	
Syringe 35 CC Luer Lock Disp 50/Box SP	9174
Syringe 35 CC Luer Slip Disp 50/Box SP	9140
Syringe 35 CC Luer Lock Disp 30/Box HP	8892
Syringe 35 CC Luer Slip Disp 30/Box SP	8891
Syringe 35 CC Luer Lock 2 pk SP	9267
<b>60 CC Syringes</b>	
Syringe 60 CC Luer Slip Disp 20/Box HP	8893
Syringe 60 CC Luer Lock Disp 20/Box HP	8894
Syringe 60 CC Luer Slip Disp 25/Box SP	9150



8881



8886



8883



9267



# automed<sup>®</sup>

The leading edge in health



## Ergonomic and durable design

Eliminates painful and costly ergonomic issues with trigger design technology



## Cost saving

Eliminates over and under-dosing, reduces labor hours, and reduces constant part replacements



Product	Item No.
<b>Automed<sup>®</sup> Devices and Accessories</b>	
automed Essentials Delivery Device	1500
automed 3 mL Adapter w/ Needle Guard, Line Feed	1501
automed 10 mL Adapter	1503
automed 20 mL Adapter	1504
automed Pour On/ Drench Accessory Kit	1506
automed Bottle Mount Accessory Kit	1507
automed Line Feed Accessory Kit	1508
automed Rechargeable battery	1509
automed Charger Base	1510
automed Wall Charger	1511
automed Android Watch-Black	1512
automed Android Watch-Silver	1513



## Accurate and speedy delivery

Automatically calculates exact dose for weight-based treatment or locks dose for mass injections



## Performance monitoring

Tracks injections given by dose, date, time, employee and even connects to RFID readers



# Marking

Retractable Marking Sticks • Prima Marc Dyes • Prima Marc Paints  
Prima Spray-On & Spray-On II • Prima Spray-On Glo • Prima Concentrates



# Marking

NEOGEN's extensive line of marking supplies includes marking sticks and a variety of spray livestock marking paints and dyes. The durable Spray-On lines are highly luminous and long lasting, and allows you to mark your livestock quickly and easily. In addition, the Prima Marc Paint, when used with the Prima Marc Vaccinator, automatically marks an animal with a spot when injected, eliminating any guess work. Designed for easy and efficient animal marking, the livestock markers come in both push-up style and with twistable plastic dispensers with caps to help keep hands and clothing clean.

Product	Description	Item No.
Prima Retractable Marking Sticks	Black	333643
	Blue	333681
	Purple	333704
	Fluorescent Pink	333711
	Red	333667
	Orange	333650
	Yellow	333698
	Green	333674
Prima Marc Paints	Fluorescent Pink	338686
	Fluorescent Orange	334077
	Red	341280
	Fluorescent Green	334091
	Blue	341297
	Black	342812
Prima Marc Metered Tip	Pink	369055
	Orange	369017
	Red	369031
	Green	369024
	Blue	369048
Prima Spray-On	Green	333537
	Blue	333520
	Black	338747
	Red	333513
Prima Spray-On II	Blue	354235
	Red	354228
	Green	354242
Prima Spray On Glo	Fluorescent Orange	338389
	Fluorescent Green	338693
	Fluorescent Pink	339942
	Fluorescent Yellow	339959
	Fluorescent Purple	339690

Prima Retractable Marking Sticks



Prima Marc Paints



Prima Marc Metered Tip



Prima Spray-On



Prima Spray On Glo



Prima Spray-On II



Product	Description	Item No.
Prima Concentrate 16 oz bottles	Pink	333865
	Blue	333889
	Green	333872
Prima Concentrate 1 gallon jugs	Pink	342669
	Blue	342676
	Green	342683
Pistol Grip	Spray-On and Spray-On II Compatible	344458

Prima Concentrate (16 oz bottles)



Prima Concentrate (1 gallon jug)



Pistol Grip



# Personnel Apparel

Boots • Gloves



# Personnel Apparel

NEOGEN offers a comprehensive line of disposable and reusable protective wear for use in all animal care situations and environments. From disposable single-use items for small animal care in a veterinary clinic, to reusable and extensive veterinary apparel for the most difficult large animal care situations, NEOGEN has options that fit every animal care environment.

Our line of protective wear includes items to be used directly on the farm such as our durable Steplite boots and disposable boots, as well as high quality OB sleeves for palpation and artificial insemination.

NEOGEN also offers a complete line of durable and disposable veterinary apparel with a range of products to fit everything from full body protection to shoulder-only protection. Our protective wear line is completed by a full offering of wrist length disposable gloves with nitrile, latex, and vinyl options available.

## Boots

NEOGEN is proud to offer our line of durable and disposable boots. Our line of Prima polyurethane veterinary boots are specifically designed for agricultural and animal health use. In addition, the Ideal® disposable boots were developed for sanitary and biosecurity use in farm and industrial applications, and are known for being dependable and economical. Whether used on the farm or in the processing plant, NEOGEN's disposable boots are of the highest quality and are trusted within the industry to meet the needs of the user.



## Techno Boots

Techno Boots Troya polyurethane boots offer guaranteed superior comfort all day long, extreme durability, cost savings and prioritize safety. Developed for long and intensive use these boots are resistant to oils, fats, manure, acid & chemicals. Elastopan polyurethane from BASF material make the boots lightweight and thermally insulating while providing flexibility and strength. Memory foam insoles conform to the shape of the foot creating a custom fit. The abrasion resistant outsole makes Techno Boots 3-4 times more durable than PVC or rubber boots. These boots offer exceptional grip in extreme environments passing the SRA\* and SRB\* tests.

- Up to 35 % lighter than PVC or rubber boots.
- Anti-bacterial
- Anti-static
- Washable and fast drying
- Odor resistant
- Kick-off Spur - take your boots off with ease
- \*SRA test (slip resistance on ceramic tile floor covered with sodium (NaLS) solution)
- \*SRB test (slip resistance on steel floor covered with glycerine).

Product	Description	Item No.
Safety Techno Boot with Steel Toe	Safety Techno Boot with Steel Toe Size US 5	377630
	Safety Techno Boot with Steel Toe Size US 6	377647
	Safety Techno Boot with Steel Toe Size US 7	377654
	Safety Techno Boot with Steel Toe Size US 8	377661
	Safety Techno Boot with Steel Toe Size US 9	377678
	Safety Techno Boot with Steel Toe Size US 10	377685
	Safety Techno Boot with Steel Toe Size US 11	377692
	Safety Techno Boot with Steel Toe Size US 12	377708
	Safety Techno Boot with Steel Toe Size US 13	377715
	Safety Techno Boot with Steel Toe Size US 14	377722
	Safety Techno Boot with Steel Toe Size US 15	377739
Non-Safety Techno Boot	Non-Safety Techno Boot Size US 5	377746
	Non-Safety Techno Boot Size US 6	377753
	Non-Safety Techno Boot Size US 7	377760
	Non-Safety Techno Boot Size US 8	377777
	Non-Safety Techno Boot Size US 9	377784
	Non-Safety Techno Boot Size US 10	377791
	Non-Safety Techno Boot Size US 11	377807
	Non-Safety Techno Boot Size US 12	377814
	Non-Safety Techno Boot Size US 13	377821
	Non-Safety Techno Boot Size US 14	377838
	Non-Safety Techno Boot Size US 15	377845



Safety Techno Boot with Steel Toe



Non-Safety Techno Boot



Disposable Boots	Elastic Band 3.0 mil M/L	BC300
	Elastic Band 3.0 mil XL	BC300-XL
	Elastic Band 4.0 mil M/L	BC400
	Elastic Band 4.0 mil XL	BC400-XL
	Elastic Band 6.0 mil XL	BC600-XL
	MaxiBoot 4.0 mil XL	MT400-XL
	PolyBoot 3 mil M/L	BT300
	Polyethylene Overboots 3 mil 50 pair	TA724
	Polyethylene Overboots 4 mil 25 pair	TA723
	Bootie Treader 3 mm Jumbo 50 pair	TB300-J
	Bootie Treader 3 mm L 50 pair	TB300-L
	Bootie Treader 3 mm XL 50 pair	TB300-XL
	Boot Treader w/Elastic Band Jumbo 40 pair	TB600-J
	Boot Treader w/Elastic Band XL 40 pair	TB600-XL



## Gloves

NEOGEN's disposable gloves are available in vinyl, latex, and nitrile styles. These gloves can be used for a wide variety of jobs and provide superior protection, durability and sensitivity at an affordable price. With a variety of sizes and materials available, NEOGEN is sure to have the right veterinary gloves to fit the needs of your operation and to help ensure the health and safety of both you and your animals.

Product	Type	Description	Item No.
Disposable Gloves	Latex	Powder Free Small	AT300PF-S
		Powder Free Medium	AT300PF-M
		Powder Free Large	AT300PF-L
		Powder Free X-Large	AT300PF-XL
	Nitrile	PRO-TECT 6 MIL® Powder Free Medium	TA586-PRO
		PRO-TECT 6 MIL Powder Free Large	TA596-PRO
		TrueBlack Premium Small	AT450-S
		TrueBlack Premium Medium	AT450-M
		TrueBlack Premium Large	AT450-L
		TrueBlack Premium X-Large	AT450-XL
		TrueBlue Premium Small	CB400-S
		TrueBlue Premium Medium	CB400-M
		TrueBlue Premium Large	CB400-L
TrueBlue Premium X-Large	CB400-XL		



Disposable Latex Glove



Disposable Nitrile Glove

# Husbandry

Sorting Panels • JOLT® • Castration Kits • Pro-Fix® Tubes  
Tail Dockers • Ear Notchers • Tattoo Supplies





Product	Item No.
<b>Husbandry</b>	
Sorting Panel 18" Red 1ct	334916
Sorting Panel 36" Red 1ct	334923
Sorting Panel 48" Red 1ct	334930
JOLT® Handy Prod	6930
JOLT Stock Prod Value 100 Handle Unit	6932
JOLT Stock Prod HP 200 Handle Unit	6933
JOLT Stock Prod Rechargeable HP 250 Handle Unit	6934
JOLT Stock Prod Shaft 32"	6936
JOLT Stock Prod Shaft 36"	6937
JOLT Stock Prod Shaft 42"	6938
JOLT Stock Prod Shaft 52"	6939
JOLT Stock Prod AC Charger	6940
JOLT Stock Prod Battery Pack Rechargeable	9772
SyrVet® Prod w/Shaft 22" w/o Batteries	LPH22
Snare Hog Catcher White	TA819
Snare Hog Catcher Mini	TA824
<b>Castration and Surgery</b>	
Newberry Castrating Knife	TA152
Castration Kit	2030
Surgical Blades SS #10 Curved 10 pk	2031
Scalpel Blades SS #12 Hooked 10 pk	2032
Scalpel Handle SS #3 1 pk	2033
Scalpels Disposable #10 5 pk	2034
Scalpels Disposable #10 5 pk - TSC	2034-19
Scalpels Disposable #12 5 pk	2035
Suture Kit	5020
Suture Catgut Chromic USP 3 50 m (SMI)	CA3
Suture Catgut Chromic USP 4 30 m (SMI)	CA4
Scalpel Mini Non-Sterile #10 40/bx	PN110
Scalpel Mini Non-Sterile #12 40/bx	PN112
Scalpel Mini Non-Sterile #22 12/bx	PN122

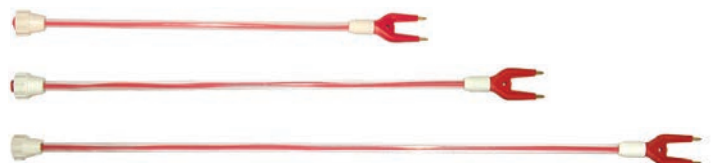
Product	Item No.
<b>Castration and Surgery (continued)</b>	
Scalpel Blades #24 100/bx	TA602
Scalpel Blades #20 100/bx	TA604
Scalpel Blades #22 100/bx	TA606
Scalpel Blades #10 100/bx	TA608
Scalpel Blades #12 100/bx	TA611
Scalpel Disposable CS #22 10/bx	TA614
Scalpel Disposable CS #10 10/bx	TA619
Scalpel Disposable CS #10 Each	TA620
Scalpel Disposable CS #12 Each	TA622
Scalpel Disposable CS #12 10/bx	TA623
Scalpel SS Handle #4	TA627
Scalpel Mini Plastic #12 Blade 40/bx - BULK	TA640-BULK
Scalpel Mini Plastic #12 2/pk	TA642
Suture Chromic 2/0 w/NDL 3/pk	ZA003M



6934



6932



6937, 6938, 6939



5020



334916, 334923, and 334930



TA604



Product	Item No.
<b>Feeding and Oral</b>	
Nipper Pig Tooth SS w/o Hole On Back	334947
Nipper Pig Tooth SS	5200
<b>Prolapse Tubes</b>	
Pro-Fix® Button VPR 1 kit	J100
Pro-Fix Tubes 5/8" 24 ct	R050
Pro-Fix Tubes 3/4" 16 ct	R075
Pro-Fix Tubes 1" 12 ct	R100
Pro-Fix Tubes 1 1/4" 16 ct	R125
Pro-Fix Tubes 1 1/2" 16 ct	R150
Pro-Fix Tubes 2" 9 ct	R200
<b>Tail Dockers</b>	
Clipper Toenail & Pig Tail Docker SS	8800



Identification	
Ear Notcher V-Type Small	7500
Ear Notcher V-Type Medium	7501
Ear Tag Set M BLU 25 pk	ETAG M BL SET
Ear Tag Set M WHT 25 pk	ETAG M WH SET
Ear Tag Set M YEL 25 pk	ETAG M YEL SET
Ear Tagger Universal Applicator	SA
Ideal Broad Tip Plastic Tag M 12/bx	TA3502-B
Tattoo Outfit Standard 3/8" Complete	7502
Tattoo Digits (0-9) 3/8"	7503
Tattoo Digits (0-9) 5/16"	7504
Tattoo Outfit Small 5/16"	7510
Tattoo Letters (A-Z) 3/8"	7530
Tattoo Letters (A-Z) 5/16"	7531
Tattoo Ink Black 3 oz	7577
Tattoo Paste Green 1 oz	7578
Tattoo Ink Black 2 oz Roll-on	7580
Tattoo Ink Green 2 oz Roll-on	7590



7500-7501



Tattoo Kit



SA Ear Tag Applicator



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