Cattle Respiratory Vaccines

**BOVI-SHIELD GOLD ONE SHOT®**
BOVI-SHIELD GOLD ONE SHOT® offers protection in the combination respiratory vaccine category and protects at the same level as the parent vaccines, BOVI-SHIELD GOLD® 5 and ONE SHOT®. In one convenient dose, BOVI-SHIELD GOLD ONE SHOT:

- Provides protection against the major respiratory viruses infectious bovine rhinotracheitis (IBR) and bovine viral diarrhea (BVD) and *Mannheimia (Pasteurella) haemolytica* protection.
- Stimulates an onset of protective immunity within seven days against *M. haemolytica*.
- Prevents respiratory disease caused by IBR and BVD Types 1 and 2 viremia, which are important contributors to bovine respiratory disease (BRD).

Learn more at UncompromisedProtection.com.

**SelectVAC®**
Help your customers earn more for their calves by encouraging them to enroll their preconditioned calves in the SelectVAC® preconditioning program. With an easier-to-use enrollment site, it has never been easier to add value.

- Selling cattle with a history in a verified preconditioning program, such as SelectVAC, provides transparency to buyers because it notifies which products were administered, when they were administered and with verification through a third party.
- Cattle properly preconditioned and weaned are more likely to remain healthy. In a recent issue of its Trends publication, CattleFax illustrated a premium for weaned calves, about $3 to $7 per hundredweight, compared with unweaned calves.

Learn more at SelectVac.com.

**INFORCE 3® and ONE SHOT® BVD**
INFORCE 3® respiratory vaccine has accelerated past other cattle vaccines to become the most-used vaccine on the market, and ONE SHOT® BVD has demonstrated success in protecting against respiratory diseases. Have your customers consider INFORCE 3 and ONE SHOT BVD in their calf immunization program for complete respiratory protection.

INFORCE 3:

- Labeled for single-nostril administration and has a six-month duration of immunity claim against respiratory disease caused by IBR.
- Prevents respiratory disease caused by bovine respiratory syncytial virus (BRSV).

ONE SHOT BVD:

- Provides protection against *M. haemolytica* and BVD Types 1 and 2 respiratory viruses.
- Stimulates an onset of protective immunity as early as seven days against *M. haemolytica*, complementing the rapid protection provided by INFORCE 3.

Learn more about INFORCE 3 and ONE SHOT BVD at CompleteCalfProtection.com.
Cattle Reproductive Vaccines

**BOVI-SHIELD GOLD FP®, CATTLEMASTER GOLD FP® and PREGGUARD GOLD FP® 10**

Fetal protection (FP) vaccines from Zoetis help keep newborn calves safe before the day they are born. With any product from the lineup of BOVI-SHIELD GOLD FP®, CATTLEMASTER GOLD FP® or PREGGUARD GOLD FP® 10, your customers are using reproductive protection backed by multiple research trials and supported by Zoetis with our Fetal Protection Support Guarantee.*

- The line of BOVI-SHIELD GOLD FP vaccines features five combinations, so you can match your vaccine program to the reproductive disease challenges in your area.
- CATTLEMASTER GOLD FP represents the first and only killed BVD vaccine with the power to deliver fetal protection from BVD-persistent infection and IBR abortion, and is safe for any cow, any calf, any time, regardless of vaccination history.
- PREGGUARD GOLD FP 10 has the same protection levels for respiratory disease as BOVI-SHIELD GOLD FP without BRSV.

Do not use in pregnant cows (abortions can result) unless cows or heifers were vaccinated, according to label directions, with any BOVI-SHIELD GOLD FP or PREGGUARD GOLD FP vaccine within the past 12 months. Do not use in calves nursing pregnant cows unless their dams were vaccinated within the past 12 months as described above.

To help ensure safety in pregnant cattle, heifers must receive at least 2 doses of any BOVI-SHIELD GOLD FP or PREGGUARD GOLD FP product with the second dose administered approximately 30 days prebreeding.

*For more information, visit FetalCalfProtection.com.*

Cattle Implants

**SYNOVEX® ONE FEEDLOT and SYNOVEX® ONE GRASS**

The patented pore-forming polymer barrier of SYNOVEX® ONE FEEDLOT and SYNOVEX® ONE GRASS delivers up to 200 days of uninterrupted performance for feedlot and stocker steers and heifers.4 By eliminating the need to re-implant, the SYNOVEX ONE formulations give producers more operational flexibility.

SYNOVEX ONE FEEDLOT and SYNOVEX ONE GRASS showed improved performance over nonimplanted steers and heifers in research studies.

- Feedlot steers receiving the SYNOVEX ONE FEEDLOT implant demonstrated a 15.4% gain improvement, with an average daily gain (ADG) of 3.45 pounds per day and a 9.8% improvement in feed efficiency.5
- Heifers receiving SYNOVEX ONE FEEDLOT demonstrated a 12% increase in ADG, with an ADG of 3.09 pounds per day and a 7% improvement in feed efficiency.6
- Steers receiving SYNOVEX ONE GRASS implants demonstrated a 20-pound advantage per head in a 200-day pasture study when compared with cattle receiving Revalor®-G or Encore®.6

Do not use SYNOVEX products in veal calves. Refer to label for complete directions for use, precautions, and warnings.

*For more information, visit GrowWithSYNOVEX.com.*

Cattle Parasiticides

**VALBAZEN® Suspension**

VALBAZEN® Suspension, DECTOMAX® Injectable and DECTOMAX® Pour-On offer effective protection against profit-robbing parasites.

- VALBAZEN Suspension controls five major parasitic groups — tapeworms, intestinal worms, stomach worms, lungworms and liver flukes — and is the only dewormer with such a broad spectrum of activity.
- VALBAZEN is the only white dewormer that removes and controls adult liver flukes at the time when your customers’ livestock need it most.

Cattle must not be slaughtered within 27 days after the last treatment with VALBAZEN. Do not use in female dairy cattle of breeding age. Do not administer to female cattle during the first 45 days of pregnancy or for 45 days after removal of bulls.

**DECTOMAX® Injectable and DECTOMAX® Pour-On**

- DECTOMAX® Injectable is approved for both subcutaneous (SC) and intramuscular (IM) administration, with no precautions for injection site discomfort or tissue reaction in cattle, which provides demonstrated safety and convenience for your customers.
- In stocker trials, DECTOMAX Injectable controlled parasites to outgain injectable ivermectin with clorsulon or ivermectin by approximately 26 pounds. (Pooled treatment difference derived from meta-analysis of 7 stocker trials.)7
- DECTOMAX® Pour-On has the longest duration of any nonprescription external parasite control product on the market. DECTOMAX Pour-On protects against the biting cattle louse (Bovicola (Damalinia) bovis) for up to 77 days and is the only pour-on with duration against long-nosed cattle louse (Linognathus vituli) at 42 days.
DECTOMAX Injectable has a 35-day pre-slaughter withdrawal period. DECTOMAX Pour-On has a 45-day pre-slaughter withdrawal period. Do not use in female dairy cattle 20 months of age or older. Do not use in calves to be processed for veal. DECTOMAX Injectable has been developed specifically for cattle and swine. Use in dogs may result in fatalities.

Cattle Reproductive Products

LUTALYSE® HighCon Injection
A successful dairy reproductive program allows for more efficient breeding, saves time and helps protect the bottom line. LUTALYSE® HighCon Injection (dinoprost tromethamine injection) is a high-concentration formula that offers cattle producers and veterinarians a flexible, convenient option to manage reproductive efficiency. LUTALYSE HighCon is a convenient and flexible option:
• High-concentration formulation.
• Approved as a 2-mL SC or IM dose.

FACTREL® Injection
Dairy producers can use FACTREL® Injection (gonadorelin injection) and LUTALYSE® Injection (dinoprost tromethamine injection) (or LUTALYSE HighCon) in many of the synchronization protocols.

FACTREL is an available form of gonadotropin-releasing hormone (GnRH), which causes the secretion of luteinizing hormone and follicle-stimulating hormone. These two naturally occurring hormones cause ovulation of the dominant follicle present on the ovary. FACTREL provides:
• Reduced infertility from ovarian cysts.
• Reduced number of days to next estrus.

FACTREL Injection and LUTALYSE/LUTALYSE HighCon Injection
The FDA approval of FACTREL and LUTALYSE/LUTALYSE HighCon includes a flexible schedule and the only flexible dose of a GnRH product, allowing producers to use protocols, developed with their veterinarians, to fit their dairy’s needs.
• Three on-farm studies of more than 12,000 cows showed FACTREL, when used with LUTALYSE, effectively helped synchronize estrous cycles and achieve equivalent conception rates as compared with other on-farm, fixed-time AI protocols in lactating dairy cows.8,9

IMPORTANT SAFETY INFORMATION FOR LUTALYSE/LUTALYSE HighCon: Women of childbearing age and persons with respiratory problems should exercise extreme caution when handling LUTALYSE/LUTALYSE HighCon. LUTALYSE/LUTALYSE HighCon is readily absorbed through the skin and may cause abortion and/or bronchospasms, therefore spillage on the skin should be washed off immediately with soap and water. Aseptic technique should be used to reduce the possibility of post-injection clostridial infections. Do not administer LUTALYSE/LUTALYSE HighCon in pregnant cattle unless cessation of pregnancy is desired. See full Prescribing Information for LUTALYSE. See full Prescribing Information for LUTALYSE HighCon.

IMPORTANT SAFETY INFORMATION FOR FACTREL: FACTREL is for use in cattle only. See full Prescribing Information.

To learn more about LUTALYSE HighCon and FACTREL as an on-label synchronization program, visit DairyReproSolutions.com or contact your veterinarian or Zoetis representative.
Cattle Intramammary Products

**ORBESEAL®**

With ORBESEAL®, you get the only internal teat sealant with 16 years of proven on-farm results and university-backed studies. ORBESEAL can help prevent new mastitis infections by acting as a physical barrier between mastitis-causing bacteria and the udder.

This sterile, nonantibiotic intramammary infusion in the form of a viscous paste:

- Mimics a cow’s natural first line of defense — her keratin plug, which blocks environmental mastitis-causing pathogens from entering the teat canal.
- Provides a safe, antibiotic-free physical barrier between the udder and the environment.
- Is compatible with conventional dry cow management practices.

A trial completed by the University of Minnesota showed statistical significance in favor of a group treated with ORBESEAL and a dry cow antibiotic versus a dry cow treatment alone.\(^{10,11,\ast,\dagger}\)

- 20% improvement in incidence of new infections at calving.
- 26% improvement in clinical mastitis between dry off and 60 days in milk.
- 19% improvement** in somatic cell count at six to eight days in milk.\(^{12}\)

ORBESEAL requires no milk or pre-slaughter withdrawal. Follow the withdrawal rules described on the label when ORBESEAL is used in conjunction with a dry cow treatment program.

Refer to the ORBESEAL label for complete instructions on proper administration at dry off and removal at freshening.

*For more information, visit Orbeseal.com.*

\(^{\ast}\) The Fetal Protection Support Guarantee is administered through Zoetis Veterinary Medical Information and Product Support (VMIPS) at 800-366-5288. Proof of purchase is required. Calves born to BVD PI-positive cows or heifers do not qualify for the guarantee. This guarantee does not apply to, and Zoetis shall not be liable for, any (x) damages caused as a result of the improper handling, misuse or abuse of the vaccines that are the subject of this guarantee, or the willful misconduct or negligence of any third party; or (y) any indirect, punitive, special, incidental, or consequential damages. Zoetis reserves the right to modify or cancel the terms and conditions of this guarantee.

\(^{\ast}\) Improvement compared with dry cow therapy alone.

\(^{\dagger}\) Percentages derived through an odds ratio versus crude rate calculation per the Woolford study as applied to the Godden study.

\(^{1}\) BOVI-SHIELD GOLD ONE SHOT Product Label. Kalamazoo, MI: Zoetis, Inc., 2013

\(^{2}\) Data on file, Study Report No. 3131W-60-11-843, Zoetis Inc.

\(^{3}\) CattleFax. Should I wean my calves. Trends. 2018;2(7).


\(^{6}\) Data on file, Study Report No. 16CARGFA01, Zoetis Inc.


\(^{8}\) Data on file, Study Report No. 13PETREPRO01-08D, Zoetis Inc.

\(^{9}\) Poock SE, Lucy MC. Conception rate for postpartum dairy cows treated with different gonadorelin (GnRH) products for first or resynchronized timed AI, in Proceedings. 2015 Midwest ADSA/ASAS Mtg 2015;252.

