

BOVI-SHIELD GOLD ONE SHOT™

FREQUENTLY ASKED QUESTIONS



BOVI-SHIELD GOLD
ONE SHOT™

Overview & Product History

Q: WHAT IS BOVI-SHIELD GOLD ONE SHOT?

A: BOVI-SHIELD GOLD ONE SHOT is a bovine combination respiratory vaccine that helps provide protection from the five key viral respiratory pathogens that are in BOVI-SHIELD GOLD 5 (BVD Type 1 virus, BVD Type 2 virus, BRSV, IBR virus and PI₃ virus) and the primary bacterial pathogen (*Mannheimia haemolytica*) that is in ONE SHOT.*

Q: WHAT MAKES BOVI-SHIELD GOLD ONE SHOT DIFFERENT FROM OTHER VIRAL COMBINATION PRODUCTS?

A: With decades of experience in manufacturing animal health products that exceed industry and internal quality-assurance requirements, Zoetis continues to bring to market innovative products and advancements to current product lines. BOVI-SHIELD GOLD ONE SHOT is the result of 25-plus years of testing and refinement that give producers and veterinarians confidence the combination respiratory vaccine works at the same level as the trusted individual vaccines.¹

Q: IS BOVI-SHIELD GOLD ONE SHOT DIFFERENT THAN BOVI-SHIELD GOLD 5 AND ONE SHOT AS INDEPENDENTLY ADMINISTERED VACCINES?

A: Yes. Part of the process to create BOVI-SHIELD GOLD ONE SHOT included extensive efforts to ensure this new combination vaccine helps provide at least equal protection when compared with either of the two independent vaccines. As part of this process, the combination vaccine has several unique characteristics not found in the two separate vaccines:¹

- Research and experience with the individual vaccines helped Zoetis identify the manufacturing processes needed to overcome potential dominant antigen issues. This allows the vaccine fractions to be combined without losing efficacy.
- BOVI-SHIELD GOLD 5 fraction used in the BOVI-SHIELD GOLD ONE SHOT combination vaccine is now adjuvanted, helping to provide excellent protection against the viral pathogens.
- BOVI-SHIELD GOLD ONE SHOT has more leukotoxoid than ONE SHOT.
- The ONE SHOT fraction underwent several manufacturing changes.
- Another difference is that BOVI-SHIELD GOLD ONE SHOT is only administered subcutaneously.

Product Information & Administration

Q: HOW IS BOVI-SHIELD GOLD ONE SHOT ADMINISTERED?

A: BOVI-SHIELD GOLD ONE SHOT is a 2 mL dose administered subcutaneously in the neck.

Q: DOES BOVI-SHIELD GOLD ONE SHOT NEED TO BE MIXED?

A: Yes, as with all modified-live viral vaccines, the product requires mixing.

Q: WHAT IS THE WITHDRAWAL PERIOD REQUIRED AFTER USING BOVI-SHIELD GOLD ONE SHOT?

A: Do not vaccinate within 21 days prior to slaughter.

Q: WHAT IS THE EXPIRATION DATING ON BOVI-SHIELD GOLD ONE SHOT?

A: The expiration dating on BOVI-SHIELD GOLD ONE SHOT is 18 months after the manufacture date.

Q: WHAT ARE THE VIAL SIZES CUSTOMERS CAN ORDER WHEN PURCHASING BOVI-SHIELD GOLD ONE SHOT?

A: BOVI-SHIELD GOLD ONE SHOT is available in a 50 dose vial size.

Q: HAS THE EFFICACY INCREASED OR DECREASED WITH ANY PORTION OF THIS VACCINE?

A: BOVI-SHIELD GOLD ONE SHOT offers a higher level of respiratory protection than BOVI-SHIELD GOLD 5 and ONE SHOT combined.

Q: IS THERE MORE ENDOTOXIN IN THE ONE SHOT FRACTION OF BOVI-SHIELD GOLD ONE SHOT THAN ONE SHOT?

A: No. The endotoxin manufacturing specifications set for BOVI-SHIELD GOLD ONE SHOT are at the same limit as ONE SHOT. Endotoxin testing is performed on the *M. haemolytica* antigens prior to vaccine formulation, with target antigen inputs standardised at formulation to ensure product specifications are achieved.

Q: SHOULD I BE CONCERNED WITH SAFETY USING BOVI-SHIELD GOLD ONE SHOT?

A: Producers should be concerned about the safety of all vaccines. However, the safety of BOVI-SHIELD GOLD ONE SHOT was demonstrated by Zoetis researchers in an extensive safety study required by the U.S. Department of Agriculture (USDA) for licensing the vaccine. It was demonstrated to be safe in all classes of cattle when used according to the label directions.¹

Sales & Competitive Details

Q: WHAT BENEFITS SHOULD I EXPECT FROM USING BOVI-SHIELD GOLD ONE SHOT COMPARED WITH MY EXISTING RESPIRATORY COMBINATION VACCINE?

A: Single dose, upgraded respiratory protection** from a combination vaccine. Convenience without compromising performance.

Q: WHAT DISEASES DOES BOVI-SHIELD GOLD ONE SHOT PROTECT MY HERD FROM?

A: BOVI-SHIELD GOLD ONE SHOT is for vaccination of healthy cattle to prevent respiratory disease caused by infectious bovine rhinotracheitis (IBR) virus and viraemia caused by bovine virus diarrhoea (BVD) virus Types 1 and 2; and as an aid in preventing respiratory disease caused by BVD virus Types 1 and 2, parainfluenza₃ (PI3) virus and bovine respiratory syncytial virus (BRSV); and bovine pneumonia caused by *Mannheimia haemolytica* type A1.

Q: ARE THERE ANY DURATION OF IMMUNITY CLAIMS?

A: A duration of immunity of at least 9 months has been demonstrated against IBR and BVD virus Types 1 and 2 respiratory disease.

Technical Details

Q: IS ANTIGEN INTERFERENCE UNIQUE TO ZOETIS VACCINES?

A: No. Every combination product has potential for antigens to interfere.

Q: HOW DID ZOETIS ADDRESS ANTIGEN INTERFERENCE?

A: By researching the topic, applying the lessons learned from research in to product development and testing the combination vaccine per USDA and Zoetis standards. Zoetis made a commitment to not release a combination vaccine for cattle until it was able to provide a product that at least matched the efficacy of its two most popular viral respiratory and *M. haemolytica* vaccines—BOVI-SHIELD GOLD® and ONE SHOT.

In 2009, researchers at Zoetis initiated the development of a combination vaccine with a very important focus: overcoming the potential for the modified-live IBR virus fraction of the vaccine interfering with the protective capabilities of the *M. haemolytica* component.

To help solve this challenge, researchers made several adjustments:¹

- Removed fractions of the *M. haemolytica* growth medium that were potentially virucidal to the viral components
- Increased the amount of *M. haemolytica* leukotoxin contained in each dose
- Took advantage of continuous improvement and enhancement of manufacturing technologies.

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ONE SHOT™



FOR ANIMALS. FOR HEALTH. FOR YOU.

zoetis

FOR ANIMAL USE ONLY.

BOVI-SHIELD GOLD ONE SHOT™: Reg. No.: G4353 (Act 36 of 1947) Bovine Rhinotracheitis-Virus Diarrhoea Parainfluenza,-Respiratory, Syncytial Virus Vaccine, Modified Live Virus *Mannheimia haemolytica* Toxoid

****VS BOVI-SHIELD™ GOLD 5:** Reg. No.: G3675 (Act 36 of 1947). BVD Type 1&2 (Bovine viral diarrhoea virus), IBR (Infectious bovine rhinotracheitis), BRSV (Bovine respiratory syncytial virus), PI₃ (Parainfluenza type 3 virus).

*ONE SHOT is a *Mannheimia haemolytica* Bacterin Toxoid vaccine. This vaccine is no longer commercially available in South Africa. It was previously registered and commercialised by Zoetis South Africa (Pty) Ltd.

1. Data on file

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