

# vectormune® HVT IBD

- **Infectious Bursal Disease**
- **Marek's Disease**

## APPROVED SPECIES

- Chickens

## VACCINE TYPE

- Live HVT vector IBD vaccine

## VACCINE CONSTRUCT

- Vector: Live serotype 3 turkey herpes virus (HVT)
- Donor Insert: Variant E Infectious Bursal virus VP2 gene

## DISEASE PROTECTION

- Standard and Variant E strains of Infectious Bursal Disease viruses
- Marek's Disease

## ROUTE OF ADMINISTRATION

- Subcutaneous injection
- *In ovo* injection

## AGE OF ADMINISTRATION

- SC: 1-day-old chickens
- *In ovo*: 18- to 19-day-old embryonated chicken eggs

## PACKAGING (PRODUCT CODE)

- 5 ampules per cane
- 1,000-dose ampule (B370H1US)
- 2,000-dose ampule (B370I1US)
- 4,000-dose ampule (B370K1US)

## VACCINE PRESENTATION

- Cell associated
- Frozen in liquid nitrogen

## QUALITY

- Thoroughly tested for purity, sterility, potency, and safety, and compliant with all applicable USDA and Ceva standards.

## Key Advantages

- Protection against Standard and Variant E strains of IBD viruses without the use of conventional live IBDV vaccines
- No live IBDV vaccine reactions or induced immunosuppression
- One-time administration at the hatchery saves labor and allows controlled application vs field vaccination
- Effective IBD vaccination in the face of IBDV maternal antibodies
- IBDV vaccination timing is no longer a problem vs conventional IBDV vaccines
- Provides Marek's disease protection equal to conventional HVT vaccines

# VECTORMUNE® HVT IBD

**BURSAL DISEASE -  
MAREK'S DISEASE VACCINE**  
Serotype 3, Live Marek's Disease Vector



## DESCRIPTION

VECTORMUNE® HVT IBD contains a genetically engineered Marek's disease vaccine of serotype 3 (turkey herpesvirus or HVT) expressing an infectious bursal disease key protective antigen. This vaccine is recommended for use in chickens as an aid in the prevention of bursal disease due to standard and variant types and Marek's disease. This Marek's disease vaccine containing serotype 3 is presented in a frozen cell associated form. The cells and virus particles are very fragile and require careful handling to prevent damage or loss of titer in order to achieve optimum efficacy. The vaccine is stored and shipped in frozen form in liquid nitrogen.

## STORAGE CONDITIONS

- Vaccine ampules: Store in liquid nitrogen
- Diluent: Store at room temperature between 68 - 77°F (20 - 25°C)

## INDICATIONS

The vaccine is recommended for use in healthy one-day-old chicks or in 18- to 19-day-old embryonated chicken eggs as an aid in the prevention of bursal disease due to standard and variant types and Marek's disease. Good management practices are recommended to reduce exposure to bursal disease virus and Marek's disease virus for at least two weeks following vaccination.

## PREPARATION AND ADMINISTRATION OF VACCINE

Read the directions for use carefully. Instructions must be completely followed. Match the vaccine dose size to the proper diluent size and route of administration as follows:

1. For subcutaneous injection of day-old chicks: Mix 200 mL of diluent for each 1000 doses of vaccine.
2. For *in ovo* vaccination of 18- to 19-day-old chicken embryos: Mix 100 mL of diluent for each 1000 doses of vaccine to administer 0.1 mL per chicken embryo or mix 50 mL for each 1000 doses of vaccine to administer 0.05 mL per chicken embryo.

## VACCINE PREPARATION

1. Be familiar with all safety and precautionary measures for handling liquid nitrogen to prevent personal injury.
2. Wear gloves, a plastic face shield, and protective goggles before removing vaccine ampules from the liquid nitrogen.
3. Check the container to confirm a sufficient amount of liquid nitrogen is present to keep the vaccine frozen. If thawed, do not use the vaccine. The containers (Dewars) must be checked regularly for liquid nitrogen level and must be refilled as needed.
4. After matching the dose size of the vaccine with the diluent size, quickly remove the exact number of ampules needed.

5. A maximum of 3 ampules should be thawed at one time. After inspecting the diluent and completing all preparations, the vaccine should be quickly removed from the Dewar and placed into a clean 80°F (26.5°C) thaw bath. This step can be repeated until the appropriate dosage has been reached. Gentle agitation during the thawing process promotes rapid, uniform thawing and evenly distributes the vaccine in the ampule.
6. Immediately after thawing, mix the vaccine with the diluent at room temperature (68°-77°F or 20°-25°C). Gently draw the vaccine from the ampule with an 18-gauge, 1.5-inch needle and slowly mix with the diluent. Rinse the ampule one time with the diluted vaccine.
7. Immediately use the vaccine and mix occasionally to ensure uniform suspension of cells.

## SUBCUTANEOUS VACCINATION

1. For subcutaneous injection, sterilize the automatic syringe, needles, and other accessory equipment by autoclaving or boiling prior to vaccination.
2. Use a short (3/8 inch or 1/2 inch) 20-gauge needle for vaccination. Subcutaneously inject 0.2 mL into the back of the neck of each chick.

## IN OVO VACCINATION

1. The vaccine is administered *in ovo* to 18- to 19-day-old embryonated eggs. Read the egg injection system operator's manual before initiating vaccination. Failure to follow instructions may result in personal injury, excessive embryonic mortality, and low hatchability. Inoculate each embryo with 1 full dose (0.05 mL or 0.1 mL).
2. Sanitize the egg injection system before and after use following the procedures described in the operator's manual.

## NOTICE

This vaccine has been thoroughly tested for safety, purity, potency, and sterility and is in compliance with all applicable USDA and Ceva standards

## CAUTION

1. Read the above directions carefully.
2. Do not vaccinate within 21 days before slaughter.
3. The vaccine contains gentamicin and amphotericin B as preservatives.
4. Burn containers and all unused contents.
5. Do not remove vaccine from liquid nitrogen until ready for use.
6. Do not refreeze the vaccine.
7. Do not use vaccine that has thawed in the liquid nitrogen container.
8. Do not overdose or over dilute the vaccine
9. The effect of combining this vaccine with other products is not known and could impact vaccine efficacy.



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