CROSS-PROTECTION* IN EVERY DROPLET.

*Protection against GA08, GA13 and **DMV/1639**/11 IBV types.



Cevac
IBron™

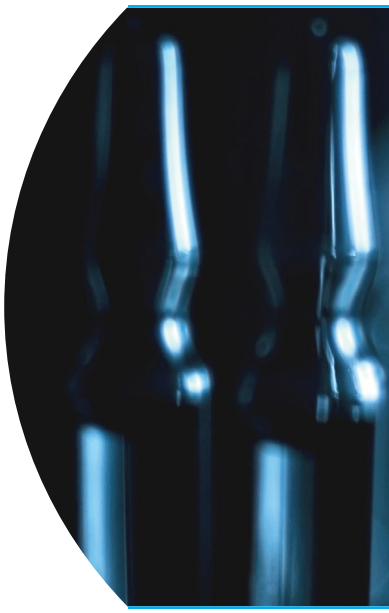
A live monovalent bronchitis vaccine.

Ceva

Infectious Bronchitis Virus

Harmful to Chickens. And Your Bottom Line.

Infectious Bronchitis Virus (IBV) is caused by a chicken coronavirus which is highly contagious and present all over the world. The virus has the ability to replicate and cause lesions in the respiratory tract, kidney and oviduct of the birds, which can lead to increased morbidity and mortality, in addition to decreased egg production and quality in breeders and layers.



The IBV virus is also characterized by its capacity to mutate. Variant IBV strains are continually emerging and breaking through conventional vaccine regimens, creating the need for additional safe and efficacious commercial vaccines. Among the variants currently circulating, Georgia 08 (GA08) and Georgia 13 (GA13), both with respiratory tropism, and DMV/1639/11, a nephropathogenic virus originally isolated from the Delmarva Peninsula, are major concerns for chicken producers.

Cevac IBron™

Protection against GA08, GA13 and DMV/1639/11 IBV Types

Cevac IBron™ is a live monovalent bronchitis vaccine containing the Georgia (GA) serotype of IBV. This vaccine is recommended for use in healthy chickens one day of age or older against bronchitis caused by IBV GA08 and IBV GA13 via the coarse spray route and IBV GA08 and IBV DMV/1639/11 via gel droplet by oral administration.

Cevac IBron™

Cevac IBron™ – Developed for Effective IBV Protection

Six independent efficacy studies were conducted by vaccinating day of age SPF chicks by either coarse (aqueous) spray or gel droplet (three studies for each route). In each trial, chicks were challenged with a virulent strain of IBV (GA08, GA13 or DMV/1639/11) at 28 days post vaccination. Protection was determined based on virus isolation of tracheal swabs at five days post challenge.

In all six trials, when challenged with GA08, GA13 or DMV/1639/11, Cevac IBron™ demonstrated significant protection ($P < 0.0001$) in chicks vaccinated by either the coarse spray or gel droplet route. IBV was isolated from greater than 90% of the chicks in the placebo-vaccinated challenged control group.



Cevac IBron™ – Challenge Results

Route	Challenge Virus	% Protection
Coarse Spray	Homologous GA08	90
	Heterologous DMV/1639/11	87
	Heterologous GA13	87
Gel Droplet	Homologous GA08	100
	Heterologous DMV/1639/11	100
	Heterologous GA13	87

Ford, Brianna. "Efficacy Studies of a Variant Infectious Bronchitis Virus Vaccine." AAAP Scientific Program - AAAP 2016 Annual Meeting. American Association of Avian Pathologists. San Antonio Convention Center, San Antonio. 8 Aug. 2016. Poster presentation.

Desvac DUO Spray & Gel

Automatic Coarse Sprayer & Gel Dispenser for Day Old Chicks

Key Features:

- Dual and Independent vaccine systems
- Free-standing system adaptable to any hatchery conveyor belt system
- Continuous and easy monitoring of the equipment conditions
- Cleaning In Place system (CIP) for better hygiene
- Flat nozzle technology with adjustable nozzle holder
- Unique gel syringe system

Fast and accurate application for coarse spray and gel droplet combined in one machine.



Cevac IBron™

Key Advantages:

- Provides protection against Georgia 08, Georgia 13 and DMV/1639/11 IBV types.
- Large dose presentations (5,000 and 10,000 doses).



FOR ANIMAL USE ONLY

STORAGE CONDITIONS

- Vaccine containers: Store in liquid nitrogen

INDICATIONS

This product has been shown to be effective for the vaccination of healthy chickens at one day of age or older against bronchitis caused by IBV GA08 and IBV GA13 via the coarse spray route and IBV GA08 and IBV DMV/1639/11 via gel droplet by oral administration. For more information regarding efficacy and safety data, see productdata.aphis.usda.gov.

PRECAUTIONS

1. Do not over dose or under dose.
2. Vaccinate only healthy birds.
3. Be sure vaccination equipment is clean and ready for vaccination. Avoid residual chemical disinfectants (bleach, quaternary ammonia, etc.) to come in contact with vaccine by thoroughly rinsing the equipment.
4. Do not open and mix vaccine until ready to vaccinate.
5. Be sure the machine is calibrated to deliver the required volume of vaccine per chicken by spraying into a volumetric cylinder.

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 ampoules 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 inspecting the diluent and completing all preparations, match the dose size of the vaccine with the diluent amount.
5. 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 with additional vials until the appropriate dosage has been reached. Gentle agitation during the thawing process promotes rapid, uniform thawing and evenly distributes the vaccine in the ampoule.
6. Immediately after thawing, confirm the vaccine is removed from the ampoule neck and carefully open the ampoule.
7. Gently draw the vaccine from the ampoule with an 18-gauge, 1.5 inch needle and slowly mix with the diluent. Rinse the ampoule one time with the diluted vaccine.

DIRECTIONS FOR USE

Carefully read the directions before use. The instructions must be completely followed. Match the vaccine dose size to the proper distilled water dilution for administration.

For 10,000 doses of Cevac IBron™ by **coarse spray**

1. Transfer contents of the Cevac IBron™ ampoule into 1000mL distilled water at room temperature (68-77°F or 20-25°C).
2. Vaccinate at one day of age or older at a ratio of 10mL for every 100 birds, through a coarse spray machine or device.
3. Use vaccine within 90 minutes of preparation.

For 10,000 doses of Cevac IBron™ by **gel droplet**

1. For 10,000 doses add 70g of Cevagel® to 2.5L of distilled water. Mix well with a blender. No further agitation is required for use on the same day.
2. Mix the vaccine vial well prior to opening.
3. Pour half of the gel into a clean container, add the vaccine, then add the remaining gel to a final volume of 2.5L for 10,000 doses. Mix with a blender.
4. Vaccinate at one day of age or older with a ratio of 25mL for every 100 birds using a gel administration machine.
5. Use vaccine within 90 minutes of preparation.

NOTICE

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

WARNING

1. Do not vaccinate within 21 days before slaughter.
2. The vaccine contains gentamicin and amphotericin B as preservatives.
3. Inactivate unused contents before disposal.
4. Keep vaccine in liquid nitrogen until ready for use.
5. Do not open and mix vaccine until ready to vaccinate. Use entire contents when first opened.
6. Do not over dose or over dilute the vaccine.
7. Do not mix with other products, except as specified on this label.
8. In case of human exposure, contact a physician.
9. For use in animals only.

CAUTION: Federal regulations prohibit repackaging or sale of the contents of this package in fractional units. Do not accept if seal is broken. This vaccine is not returnable to the manufacturer.

ACTIVE INGREDIENTS

Cevac IBron™: Infectious Bronchitis Virus, Georgia Type

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VLN 368

CA4-497-0825-E

Cevac IBron™ trademark is the property of Ceva Santé Animale S.A.