

MILDVAC-Ma5™

Bronchitis Vaccine

(Massachusetts Type, Live Virus)

For the vaccination of healthy chickens 1 day of age or older by coarse spray administration or 2 weeks of age or older by drinking water administration as an aid in the prevention of disease due to Massachusetts type bronchitis virus.

ADVANTAGES:

- Mild reactions for minimal stress
- Administered at 1 day of age or older
- Key component of Protectotype™ strategy providing:
 - Cross-reacting antibodies
 - Wide coverage across multiple strains



Mildvac-Ma5™ is a live vaccine for the protection of chickens against Massachusetts type bronchitis and is a key component of the Protectotype strategy.

Product Code
10 x 10,000 doses



MILDVAC-Ma5™

Bronchitis Vaccine

(Massachusetts Type, Live Virus)



For Animal Use Only.

Description

This live virus vaccine is prepared from the cloned Ma5 strain of Massachusetts type bronchitis. The Ma5 infectious bronchitis strain was developed by Merck's research and selected for its low reactivity and high immunogenicity. The virus has been propagated using SPF substrates. The immunizing capability has also been proven by Master Seed Immunogenicity Test.

Indications for Use

This vaccine is recommended for the vaccination of healthy chickens 1 day of age or older by coarse spray administration or 2 weeks of age or older by drinking water administration as an aid in the prevention of disease due to Massachusetts type bronchitis virus.

Vaccination Programs

Many factors must be considered in determining a sound vaccination program for a particular farm or poultry complex. To be fully effective, the vaccine must be administered properly to healthy, receptive birds maintained in a proper environment under good management. In addition, the response may be influenced by the age of the birds and their immune status. Seldom does 1 live virus vaccination under field conditions produce lifetime protection for all individuals in a given flock. The level of immunity required will vary with operational practices and the degree of exposure. Therefore, a program of periodic revaccinations may be necessary.

Preparation of Vaccine

FOR DRINKING WATER OR COARSE SPRAY USE

DO NOT OPEN AND MIX THE VACCINE UNTIL READY TO BEGIN VACCINATION. USE VACCINE IMMEDIATELY AFTER MIXING.

1. Remove the tear-off seal and stopper from the vial containing the lyophilized vaccine.
2. Carefully pour clean, cool, non-chlorinated tap water into the vaccine vial until the vial is approximately 2/3 full.
3. Insert the rubber stopper and shake vigorously until all material is dissolved.
4. The vaccine is now ready for drinking water or coarse spray use in accordance with the directions below. For best results, be sure to follow directions carefully!

Drinking Water Administration

FOR CHICKENS 2 WEEKS OF AGE OR OLDER

1. Do not use any disinfectants in the drinking water for 48 hours before vaccinating and 24 hours after vaccination.
2. Withhold the water from the chickens until they are thirsty. Withholding periods will vary from 2 to 8 hours according to age of chickens and weather conditions.
3. Scrub waterers and rinse thoroughly with fresh, clean water. Do not use disinfectants for cleaning waterers.
4. Mix rehydrated vaccine with clean, cool, non-chlorinated tap water in accordance with the following chart:

Water Per 1,000 Doses Vaccine

Age of Chickens	Liters	U.S. Gallons
2-4 weeks	23	6
4-8 weeks	38	10
8 weeks or older	60	16

As an aid in preserving the virus, 100 g (3.2 oz.) of non-fat powdered milk may be added to each 38 liters (10 U.S. gal.) of water used for mixing vaccine. Add the dried milk first and agitate thoroughly. Then add the rehydrated vaccine from the vial and mix thoroughly.

5. Distribute the vaccine solution, as prepared above, in the waterers provided for the chickens. Avoid placing waterers in direct sunlight.
6. Provide no other drinking water until all the vaccine-water solution has been consumed.

Coarse Spray Vaccination FOR CHICKENS 1 DAY OF AGE

1. Use rehydrated vaccine as indicated for specific coarse spray vaccination machine. For example, a machine which dispenses 20 ml to a box of 100 chickens; - total volume for 2,000 doses in 400 ml, and 10,000 doses is 2,000 ml of deionized water. Mix thoroughly.
2. Add the vaccine solution to reservoir on the machine.
3. Prime and adjust machine as instructed in manual accompanying the specific machine.
4. Place boxes holding 100 chickens each on the conveyor belt or in machine. Activate spray head.

Coarse Spray Vaccination FOR CHICKENS 2 DAYS OF AGE OR OLDER

1. Do not use any disinfectants or skim milk in sprayer.
2. Use sprayer only for administration of vaccines.
3. Shut off all fans while spray vaccinating. Turn on fan immediately after spraying. Be careful in hot weather.
4. Spray chickens by walking slowly through the house.
5. Follow the manufacturer's directions regarding water volume.
6. Use only clean, cool, deionized water.
7. Individual(s) spraying chickens should wear face mask and goggles.

Caution

1. VACCINATE ONLY HEALTHY CHICKENS. Although disease may not be evident, coccidiosis, *Mycoplasma* infection, infectious bursal disease, Marek's disease, reovirus infection and other disease conditions may cause complications or reduce immunity.
2. All susceptible chickens on the same premises should be vaccinated at the same time.
3. The revaccination of laying hens with live bronchitis vaccine may be detrimental to the flock and cannot be generally recommended. Consult your Merck Animal Health representative for more information.
4. Efforts should be taken to reduce stress conditions at the time of vaccination and during the post-vaccination period.
5. Do not spill or splash the vaccine.
6. Do not dilute the vaccine or otherwise stretch the dosage.
7. Use entire contents when first opened.
8. Do not vaccinate within 21 days before slaughter.
9. Burn containers and all unused contents.
10. This vaccine contains gentamicin as a preservative.

Notice

This vaccine has undergone rigid potency, safety and purity tests, and meets Intervet Inc., U.S. and local requirements. It is designed to stimulate effective immunity when used as directed. The user must be advised that the response to the vaccine depends on many factors, including, but not limited to, conditions of storage and handling by the user, administration of the vaccine, health and responsiveness of the individual chickens, and the degree of field exposure. Therefore, directions should be followed carefully!

This product is not hazardous when used according to directions supplied. A safety data sheet (SDS) is available upon request. This and any other consumer information can be obtained by calling Merck Animal Health Customer Service at 1-800-211-3573.

Records

Keep a record of vaccine, quantity, serial number, expiration date, and place of purchase; the date and time of vaccination; the number, age, breed, and locations of chickens; names of operators performing the vaccination and any observed reactions.

STORE VACCINE BETWEEN 2 AND 7°C (35 AND 45°F).

Contact our sales or technical services representatives to help design a custom vaccination program.