

# COMBOVAC-30<sup>®</sup>

Newcastle – Bronchitis Vaccine

(B<sub>1</sub> Type, LaSota Strain, Massachusetts and Connecticut Types, Live Virus)

For the vaccination of chickens at 2 weeks of age or older for protection against Newcastle disease (ND) and Massachusetts and Connecticut types infectious bronchitis (IB).

## ADVANTAGES:

- Excellent immunogenicity against a wide range of ND and IB isolates
- Milder reaction than other LaSota ND Massachusetts and Connecticut type IB vaccines
- Safe for use as a field boost to revaccinate broilers
- Long-lasting protection against both ND and IB challenge



**Combovac-30<sup>®</sup>** combines the unique, Clone 30 strain of ND virus with the highly immunogenic Massachusetts type IB virus (Connaught strain) and the Connecticut type IB virus. It is a lyophilized vaccine approved for spray or drinking water vaccination of chickens 2 weeks of age or older for protection against ND and Massachusetts and Connecticut types IB.

10 x 2,000 doses  
10x 10,000 doses



**MERCK**  
Animal Health



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For Animal Use Only.

## Description

This live virus vaccine is prepared from the proven Clone 30 strain of Newcastle disease (ND) virus and the regular Massachusetts and Connecticut bronchitis viruses. The viruses have been propagated using specific-pathogen-free (SPF) substrates. Merck Animal Health's research team cloned several lentogenic ND virus strains from separate possible subpopulations within these strains. These clones were then extensively tested for immunogenicity and reactivity. One clone, designated ND Virus Clone 30, was selected and proven to be of the same order of reactivity as the classical Hitchner B<sub>1</sub>, but provided considerably better protection.

## Indications for Use

COARSE SPRAY OR DRINKING WATER – Vaccination of healthy chickens 2 weeks of age or older for protection against Newcastle disease and Massachusetts and Connecticut types of bronchitis. Initial vaccination should be by coarse spray, drinking water.

## 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

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 of vaccine.
2. Carefully pour clean, cool, non-chlorinated 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. Pour the rehydrated vaccine into a container in preparation for drinking water or coarse spray use.
5. 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 48 hours before vaccinating and 24 hours after vaccination.
2. Withhold drinking 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 chart below.

Age of Chickens	Water Per 1000 Doses Vaccine
2 - 4 Weeks	6 gal. (23 liters)
4 - 8 Weeks	10 gal. (38 liters)
8 Weeks or Older	16 gal. (60 liters)

As an aid in preserving the virus, 3.2 ounces (100 gm) of non-fat powdered milk may be added to each 10 U.S. gallons (38 liters) 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, to 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 2 WEEKS OF AGE OR OLDER

1. Initial spray vaccination should be by coarse spray.
2. Do not use any disinfectants or skim milk in sprayer.
3. Use sprayer only for administration of vaccines.
4. Shut off all fans while spray vaccinating. Turn on fan immediately after spraying. Be careful in hot weather.
5. Spray chickens by walking slowly through the house.
6. Follow the recommendation of the manufacturer of the sprayer regarding water volume.
7. Use only clean, cool, deionized water.
8. 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 Newcastle/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 reaction 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.
11. WARNING: Newcastle virus occasionally causes conjunctivitis in humans. Avoid any contact of vaccine with eyes.

## Notice

This vaccine has undergone rigid potency, safety and purity tests, and meets Merck Animal Health and USDA requirements and is designed to stimulate effective immunity when used as directed. The user must be advised that the response to the vaccine depends upon 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 location 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.