

# 2177<sup>®</sup>

Tenosynovitis Vaccine

(Live Virus)



For the vaccination of chickens 1 day of age for the prevention of reovirus associated diseases.

## ADVANTAGES:

- Safe for use in day of age broilers
- Natural non-pathogenic strain is not attenuated and cannot revert to virulence
- No interference with serotype 2 and serotype 3 Marek's disease vaccines
- Excellent protection against virulent challenge with reovirus
- Protection in the presence of maternal antibody



**2177<sup>®</sup>** is a patented, natural non-pathogenic 2177 strain of reovirus. This frozen vaccine is for use in broilers, broiler breeder replacements or pullets 1 day of age or older via subcutaneous injection for the prevention of reovirus diseases.

2,000 dose ampules



**MERCK**  
Animal Health



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(Live Virus)



For Animal Use Only.

## READ FULL DIRECTIONS CAREFULLY.

Use entire contents when first opened.

Do not vaccinate within 21 days before slaughter.

CAUTION: Burn containers and all unused contents.

## Description

2177<sup>®</sup> is a frozen, live virus vaccine that contains the 2177 strain of avian reovirus. 2177 is a naturally apathogenic avian reovirus originally isolated from commercial chickens. 2177 is packaged in 2,000 dose glass ampules and supplied with diluent packaged in a separate container. The vaccine ampules are inserted in metal canes, stored and shipped in a liquid nitrogen container.

## Indications for Use

2177 is recommended for vaccination of healthy 1 day old chickens by subcutaneous injection for the prevention of tenosynovitis/viral arthritis.

## Storage Conditions

AMPULES - Store in liquid nitrogen container.

DILUENT - Do not freeze.

CONTAINER - Store liquid nitrogen container securely in upright position in a dry, well-ventilated area and away from incubator intakes and chicken boxes.

## Safety Precautions

Liquid nitrogen container and vaccine should be handled only by properly trained personnel who are thoroughly conversant with the Union Carbide publication and instruction booklet regarding the use of, precautions for, and safe practices for liquefied atmospheric gases (particularly liquid nitrogen). When removing ampule cane, handling frozen ampules, or adding liquid nitrogen, wear long sleeves, a plastic face shield and gloves to protect the skin from contact with the liquid nitrogen.

All storage and handling of the liquid nitrogen container must be in a dry, ventilated area. Do not inhale liquid nitrogen vapors. If drowsiness occurs, get fresh air quickly; then ventilate entire area. If breathing difficulty occurs, apply artificial respiration. If any of these difficulties persist or there is a loss of consciousness, summon a physician immediately. Care should be exercised to prevent contaminating your hands, eyes and clothing with the vaccine.

## Preparation for Vaccine

CAUTION: READ ABOVE WARNING ADVICE ON HANDLING VACCINE AMPULE. STERILIZE VACCINATING EQUIPMENT BY BOILING IN WATER FOR 30 MINUTES OR BY AUTOCLAVING (20 minutes at 250°F or 121°C). DO NOT USE CHEMICAL DISINFECTANTS.

1. Use 2,000 doses of vaccine with 400 ml sterile diluent per 2,000 chickens when administering vaccine by the subcutaneous route.
2. Before withdrawing vaccine from liquid nitrogen canister, protect hands with gloves, wear long sleeves and use a face mask or goggles. It is possible an accident could occur with either the liquid nitrogen or the ampules of vaccine. When removing an ampule from the cane, hold palm of gloved hand away from body and face.
3. When withdrawing a cane of ampules from canister in liquid nitrogen container, expose only the ampule to be used immediately. We recommend handling only 1 ampule at a time. After removing the ampule from the cane, the remaining ampules should be replaced immediately in the canister of the liquid nitrogen container.

4. The contents of the ampule are thawed rapidly by immersing in water at room temperature. Shake ampule to disperse contents. Then break ampule at its neck and immediately proceed as below. Dilute the vaccine with diluent for administration. 2,000 doses of vaccine is added for each 400 ml of diluent. CAUTION: Ampules have been known to explode on sudden temperature changes. Do not thaw in hot or ice cold water.
5. Draw contents of ampule into a sterile 10 ml syringe, mounted with an 18-gauge needle.
6. Dilute immediately by filling the syringe slowly with a portion of the diluent. IMPORTANT: THE DILUENT SHOULD BE AT ROOM TEMPERATURE (60°-80°F or 16°-27°C) AT TIME OF MIXING.
7. The contents of the filled syringe are then added to remaining diluent. It is important that this be done slowly. Slowly empty the syringe, allowing the vaccine to run down the side of the diluent container. Gently agitate the container as the vaccine is being mixed. Withdraw a portion of the diluent with the syringe to flush ampule. Remove the remaining diluent from the ampule and inject gently into the diluent container. Remove the syringe.
8. Fill the previously sterilized automatic syringe according to the manufacturer's recommendations.

## Method of Vaccination SUBCUTANEOUS ADMINISTRATION

1. Hold the chicken by the back of the neck just below the head. The loose skin in the area is raised by gently pinching with the thumb and forefinger. Insert the needle beneath the skin in a downward direction away from the head. Inject 0.2 ml per chicken.
2. Avoid hitting the muscles and bones in the neck.
3. Entire contents of container must be used within 1 hour after mixing or be discarded according to caution statement No. 11.
4. After reconstitution, the vaccine should be kept cool and gently agitated frequently.

## Notice

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

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.

## Caution

It is recommended that good management practices be followed to reduce exposure to reovirus for at least 3 weeks following vaccination.

1. Do not mix any substance not approved by Merck Animal Health with this vaccine.
2. Store vaccine in liquid nitrogen at a temperature below -238°F or -150°C.
3. Gloves and visor should be worn when handling liquid nitrogen.
4. ONCE THAWED, THE PRODUCT SHOULD NOT BE REFROZEN.
5. Do not dilute or otherwise stretch the dosage of this vaccine.
6. Once mixed with diluent, the vaccine should be gently agitated frequently.
7. Once mixed with diluent, the vaccine should be used within 1 hour.
8. Only healthy chickens should be vaccinated.
9. Do not vaccinate within 21 days before slaughter.
10. This vaccine contains gentamicin as a preservative.
11. BURN THIS CONTAINER AND ALL UNUSED CONTENTS.

## 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 IN LIQUID NITROGEN.

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