

Spray administration of vaccine in sheds

Spray administration is a simple and effective method of administering live vaccines if air movement in the shed can be minimised.

The three critical factors for effective spray vaccination are:

- 1. Excellent quality water to ensure the vaccine stays alive.
- Uniform delivery of the vaccine to all birds using a correctly adjusted sprayer.
- Minimisation of air movement during vaccination and for 20 minutes afterwards.

Preparation before vaccination day

- Use a knapsack sprayer with an adjustable spray nozzle.
 This sprayer should be dedicated for spraying vaccine only and not used for any other purpose.
- Adjust the nozzle to give a spray of uniformly sized droplets that spread out evenly and quickly settle. Do not use a fine mist that hangs in the air – adjust the nozzle and / or reduce the pressure. Conversely, do not use a spray so coarse that it resembles a stream.
- Practice the spraying technique. Use a sweeping action to uniformly cover the ground with droplets as the operator walks at a constant speed. Adjust as necessary.
- 4. Determine the volume of water required for administration of the vaccine. Perform a trial vaccination run with water only. Measure the amount of water required to cover the area inhabited by the chickens.
- Water used for administering live vaccine must not contain chlorine. Chlorine kills the vaccine. It may be convenient to purchase high quality bottled water.

On vaccination day

- Vaccinate during the coolest time of day (usually early morning).
- 2. Turn the lighting down and allow the birds to settle.
- 3. Put the required volume of cool clean water in a clean plastic mixing container.
- 4. Open the vaccine vial by removing the metal seal and rubber stopper. Dissolve the vaccine with the water. Replace the rubber stopper and shake gently.
- 5. Add the dissolved vaccine to the water and rinse the vial and stopper in the water.
- 6. Swirl the reconstituted vaccine to mix thoroughly.
- 7. Pour the reconstituted vaccine into the sprayer reservoir. Agitate to mix.
- 8. Turn off the ventilation fans and close the shed just before applying the vaccine.

- 9. Immediately start spraying the birds. A light spray over the birds is sufficient. Simply let the spray droplets settle onto the birds from a height of 500 600 mm.
- 10. Wait 20 minutes after completing vaccination. Then open the shed and turn on the ventilation fans.

After vaccination

- Document the vaccination in flock / shed records.
- Wash out the sprayer and rinse several times in hot clean water. Do not use detergent or sanitiser.
- 3. Store the sprayer in a dust free cabinet.

N.B.

- Follow the instructions on the package insert carefully. Do not take short cuts.
- Never give less than one full dose of vaccine per bird -1000 doses is for up to 1000 birds.
- 3. Do not let the vaccine die. Use clean water without chlorine. After reconstitution use the vaccine immediately. Keep the vaccine away from the sun.
- 4. The operator should wear a face mask and goggles to prevent spray entering the eyes, nose or mouth.

