

GUELPHPOULTRY



VETERINARY SERVICES

Phone: (519) 821-5963
Fax: (519) 821-2841
Email: guelphpoultry@gpvs.ca

519 Maltby Road West
Guelph, ON N1L 1G3

Spray Vaccination Field Application Guide

Coarse spray vaccination is used to apply live vaccines such as Infectious Bronchitis (IB), and Avian Metapneumovirus (aMPV).

Before Spraying

- Use a dedicated, clean sprayer reserved only for vaccination
- Before first use, disassemble, inspect and clean all nozzles, filters, and lines with clean water, do not use soap or disinfectant
- Choose coarse spray nozzles producing droplets 150–200 µm in diameter
- Re-assemble the unit and perform a dry run with water only to check spray pattern, pressure and nozzle function (no need to turn off fans for this run)
- Keep vaccines refrigerated at 2–8 °C until mixing; never freeze
- Use the full volume within 1 hour of mixing
- Use cool (50°F), clean, chlorine-free water for mixing (usually 2-3 gallons)- preferably distilled water with vaccine stabilizer
- Ensure the stabilizer is mixed thoroughly to avoid plugging of the nozzle
- Avoid vaccinating at the warmest time of day during the summer months

During Spraying

- Turn fans off prevent drift
- Dim lighting just enough to keep birds calm and stationary
- Run the sprayer before entering the barn to acclimate birds to the loud sound
- The sprayer should start at one end of the barn and walk slowly along the inside feeder or drinker line, applying spray evenly in a gentle, rain-like pattern across the flock 30-50cm over the birds' heads that settles on birds' heads, eyes, and beaks (not a mist)
- Maintain a slow, consistent pace and slightly overlap each pass to ensure full coverage
- If possible, a second person should walk ahead to calmly move birds aside, keeping them evenly spread and preventing crowding during spraying
- Avoid spraying walls, feeders, or floors
- Can add an approved food-grade dye to the vaccine solution to visually confirm even coverage; check several birds to ensure droplets are visible on feathers and faces
- Gently stir or agitate the vaccine solution throughout application to prevent settling

After Spraying

- Return fans and lights to normal settings
- Immediately rinse tank, lines, and nozzles with clean, chlorine-free water
- Can rinse with isopropyl alcohol or vinegar before storage
- Remove nozzles, inspect for wear or clogging, and air dry
- Store sprayer in a clean, dry area, away from chemicals or dust