Marek's Disease

Protocol

Background

Marek's disease was first described over 80 years ago as a condition causing paralysis of the legs and wings due to inflammation of the nerves. The condition was then known as fowl paralysis. In the 1920s and 1930s, an association with internal tumors in various organs such as liver, spleen, kidneys and lungs was made.

Protocol

An effective Marek's disease protocol should comprise the following four specific steps:

Step 1: Removal of equipment and dry cleaning

- Remove any residual food from the feeder system and silo.
- Remove all moveable equipment.
- Blow or wash down all surfaces to remove dust from ceilings, ledges, water pipes, fan boxes and inlets.
- Remove all litter from the house using scrapers and blow or brush loose debris from the ceilings and floor.
- Load litter onto wheel barrel, ensuring that all outside areas such as concrete pads by doors and silos are cleared of old litter, dust etc.
- Make sure that the load is covered before transporting from site.
- Blow or wash down bulk feed bins before disinfecting.

Step 2: Cleaning and disinfecting the water system

- Isolate header tank at main inlet point, check that it is free from debris and then drain entire system from the drinker points farthest away. Clean as required.
- Fill the tank with the necessary volume of water to fill the entire drinking water system, adding the appropriate amount of disinfectant concentrate to achieve the required dilution.
- Allow disinfectant solution to fill the system to the drinker points farthest away from the header tank. Leave for one hour.
- Thoroughly flush lines with clean water. Repeat process if scale and biofilms remain.
- Refill the header tank with clean, fresh water.

Step 3: Cleaning buildings and equipment

- Thorough washing of all surfaces and equipment is essential to soak and dislodge as much organic material as possible and achieve the best results from the subsequent disinfection stage.
- Use a foam gun applicator apply ProVetLogic STABLE Environment Enzymatic Cleaner to all surfaces. Include partitions, feeders, drinkers and other equipment, including any removed from the house. Include any service/utility rooms in this cleaning procedure before rinsing all surfaces and equipment with clean water.

Step 3: Cleaning buildings and equipment (continued)

- Using a foam gun applicator, spray air inlets and built-up deposits from around fan boxes and loading areas with the enzymatic solution. Ensure that all dirty areas such as concrete walkways around the houses and bulk bin pads are washed clean. Internally, soak all surfaces thoroughly with the enzymatic solution.
- Leave for 3 to 5 minutes, and then rinse with clean water. Ensure all surfaces and equipment are visibly clean before moving on to the disinfection stage.

Step 4: Disinfection

- Use ProVetLogic Animal Facility Disinfectant at a 1-ounce per gallon dilution.
- Use foam gun applicator to disinfect all equipment removed from the building.
- Place the equipment back in the cleaned building prior to disinfecting the house itself.
- Use a foam gun applicator to apply the disinfectant solution evenly to all washed internal surfaces to achieve thorough wetting.
- Pay particular attention to corners, cracks and seams ensuring that all sides of supporting posts are covered.
- Spray into the apex of the roof and work down the walls to the floors.
- Working from one end of the building to the other, apply disinfectant solution to the floor of the building.
- Upon disinfection, close all doors and place disinfectant footbaths at all entrances. Use a solution of 1-ounce of Animal Facility Disinfectant to 1-gallon of water.

Phone: 800.869.4789
Email: education@provetlogic.com