

Avian Serology

ELISA Enzyme-Linked Immunosorbent Assay



AE (Avian Encephalomyelitis)
CAV (Chicken Anemia Virus)
IBD-XR (Infectious Bursal Disease)
IBV (Infectious Bronchitis Virus)

MG (Mycoplasma gallisepticum)
MS (Mycoplasma synoviae)
NDV (Newcastle Disease Virus)
REO (Reovirus)

Sample Submission Requirements

Complete the submission form including the following information:

- Owner name
- Date and time of collection
- Number of samples
- Code (if applicable)
- Veterinarian
- Flock identification
- Farm identification
- Type of poultry
- Age (weeks/days) and size of flock (number of birds)
- Vaccination history
- Tests requested

Blood collection kits available from:

Animal Health Laboratory
Hancock Building
65 River Road
Truro, Nova Scotia B2N 5G6

Please label specimen container/tray with owner's name and flock identification.

ELISA Sample Collection

Sample Volume: 0.5 ml serum

Number of samples: 15/flock unless otherwise specified

Storage/Shipment:

Keep the blood samples at room temperature until the serum has separated from the clot (this may take 12–24 hours).

Refrigerate samples at 2–4°C and for no more than 3 days.

Avoid letting samples sit on the clot over a weekend. If samples need to be stored for a longer period, the serum should be removed from the clot and frozen to a minimum of –20°C.

Ensure all samples are properly labeled in a styrofoam rack and sealed tightly to prevent evaporation and spills.

Submission

Please **do not** send used needles to the Lab with samples.

Please include **completed** Avian Submission form and properly identified specimens.

Serum samples with trace hemolysis (light red color) and moderate lipemia (milky appearance) may have little or no effect on ELISA results. Avoid heavily hemolyzed (dark red color) or grossly lipemic samples.

Ensure that you follow proper packaging procedures, as indicated, so that all samples will be accepted by the Laboratory.

Laboratory Services is often testing more than one producer at a time, so ensure you identify your samples to eliminate any potential identification problems.

Nova Scotia Department of Agriculture

Agriculture and Food Operations

Animal Health Laboratory

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