

Washington Animal Disease Diagnostic Lab

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**Case#: 2021-7123
Report Date: 05/11/21**

**Took A Leap Farm
243 B Rd**

Houlton, ME 04730

Submittal Date: 05/07/21
Owner: Lawless, Robert

Species: Domestic Goat

Age:
Sex:

Final Report:

Serology- Reported on 05/11/21 Authorized by James Evermann, Section Head

Please see Serology test interpretation comments at end of report

| Sample | Animal | Caseous |
|------------|---------|---------|
| 1 A Serum | AVI F48 | Neg |
| 2 A Serum | BW K30 | Neg |
| 3 A Serum | DEL L12 | Neg |
| 4 A Serum | ENC E28 | Neg |
| 5 A Serum | ERE L26 | Neg |
| 6 A Serum | EUL K38 | Neg |
| 7 A Serum | FIA D17 | Neg |
| 8 A Serum | GIL E23 | Neg |
| 9 A Serum | HUE H26 | Neg |
| 10 A Serum | MAR D23 | Neg |
| 11 A Serum | MIN E1 | Neg |
| 12 A Serum | MIC K44 | Neg |
| 13 A Serum | QUE J29 | Neg |
| 14 A Serum | ROS L16 | Neg |
| 15 A Serum | TAS B19 | Neg |
| 16 A Serum | TUP H6 | Neg |
| 17 A Serum | WHI E31 | Neg |
| 18 A Serum | WIN B29 | Neg |
| 19 A Serum | OIN Z1 | Neg |
| 20 A Serum | ZEN Z2 | Neg |
| 21 A Serum | TRI Z3 | Neg |
| 22 A Serum | DWB J37 | Neg |
| 23 A Serum | GER A12 | Neg |
| 24 A Serum | MAM L38 | Neg |
| 25 A Serum | SHE J31 | Neg |
| 26 A Serum | TYR M18 | Neg |
| 27 A Serum | UWA C51 | Neg |
| 28 A Serum | WAL E8 | Neg |

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| Sample | Animal | Caseous |
|------------|---------|---------|
| 29 A Serum | YEL L16 | Neg |
| 30 A Serum | EPI L9 | Neg |
| 31 A Serum | FAN K23 | Neg |

Johne's Disease by ELISA

| Specimen | Animal | SP ratio | Result |
|---------------------|---------|----------|----------|
| 1 A Blood, Clotted | AVI F48 | -0.006 | Negative |
| 2 A Blood, Clotted | BW K30 | -0.004 | Negative |
| 3 A Blood, Clotted | DEL L12 | -0.006 | Negative |
| 4 A Blood, Clotted | ENC E28 | -0.007 | Negative |
| 5 A Blood, Clotted | ERE L26 | -0.004 | Negative |
| 6 A Blood, Clotted | EUL K38 | -0.006 | Negative |
| 7 A Blood, Clotted | FIA D17 | -0.006 | Negative |
| 8 A Blood, Clotted | GIL E23 | -0.004 | Negative |
| 9 A Blood, Clotted | HUE H26 | -0.004 | Negative |
| 10 A Blood, Clotted | MAR D23 | -0.003 | Negative |
| 11 A Blood, Clotted | MIN E1 | -0.005 | Negative |
| 12 A Blood, Clotted | MIC K44 | -0.003 | Negative |
| 13 A Blood, Clotted | QUE J29 | -0.000 | Negative |
| 14 A Blood, Clotted | ROS L16 | 0.004 | Negative |
| 15 A Blood, Clotted | TAS B19 | 0.022 | Negative |
| 16 A Blood, Clotted | TUP H6 | -0.001 | Negative |
| 17 A Blood, Clotted | WHI E31 | -0.000 | Negative |
| 18 A Blood, Clotted | WIN B29 | 0.002 | Negative |
| 19 A Blood, Clotted | OIN Z1 | 0.006 | Negative |
| 20 A Blood, Clotted | ZEN Z2 | 0.002 | Negative |
| 21 A Blood, Clotted | TRI Z3 | 0.001 | Negative |
| 22 A Blood, Clotted | DWB J37 | 0.005 | Negative |
| 23 A Blood, Clotted | GER A12 | 0.005 | Negative |
| 24 A Blood, Clotted | MAM L38 | -0.001 | Negative |
| 25 A Blood, Clotted | SHE J31 | 0.003 | Negative |
| 26 A Blood, Clotted | TYR M18 | 0.005 | Negative |
| 27 A Blood, Clotted | UWA C51 | 0.003 | Negative |
| 28 A Blood, Clotted | WAL E8 | 0.009 | Negative |
| 29 A Blood, Clotted | YEL L16 | 0.001 | Negative |
| 30 A Blood, Clotted | EPI L9 | 0.003 | Negative |
| 31 A Blood, Clotted | FAN K23 | 0.002 | Negative |

Lentivirus ELISA goats/sheep

| Specimen | Animal | % I | Result |
|---------------------|---------|--------|----------|
| 1 A Blood, Clotted | AVI F48 | 2.538 | Negative |
| 2 A Blood, Clotted | BW K30 | -2.968 | Negative |
| 3 A Blood, Clotted | DEL L12 | -0.508 | Negative |
| 4 A Blood, Clotted | ENC E28 | 0.664 | Negative |
| 5 A Blood, Clotted | ERE L26 | 11.441 | Negative |
| 6 A Blood, Clotted | EUL K38 | 9.098 | Negative |
| 7 A Blood, Clotted | FIA D17 | -0.039 | Negative |
| 8 A Blood, Clotted | GIL E23 | 13.784 | Negative |
| 9 A Blood, Clotted | HUE H26 | -0.390 | Negative |
| 10 A Blood, Clotted | MAR D23 | 1.250 | Negative |

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Lentivirus ELISA goats/sheep

| Specimen | Animal | % I | Result |
|---------------------|---------|--------|----------|
| 11 A Blood, Clotted | MIN E1 | 1.132 | Negative |
| 12 A Blood, Clotted | MIC K44 | -1.913 | Negative |
| 13 A Blood, Clotted | QUE J29 | -1.679 | Negative |
| 14 A Blood, Clotted | ROS L16 | 2.655 | Negative |
| 15 A Blood, Clotted | TAS B19 | 2.655 | Negative |
| 16 A Blood, Clotted | TUP H6 | 1.718 | Negative |
| 17 A Blood, Clotted | WHI E31 | 5.584 | Negative |
| 18 A Blood, Clotted | WIN B29 | 8.278 | Negative |
| 19 A Blood, Clotted | OIN Z1 | 1.484 | Negative |
| 20 A Blood, Clotted | ZEN Z2 | 3.709 | Negative |
| 21 A Blood, Clotted | TRI Z3 | -1.679 | Negative |
| 22 A Blood, Clotted | DWB J37 | 23.858 | Negative |
| 23 A Blood, Clotted | GER A12 | 8.161 | Negative |
| 24 A Blood, Clotted | MAM L38 | 10.035 | Negative |
| 25 A Blood, Clotted | SHE J31 | 3.592 | Negative |
| 26 A Blood, Clotted | TYR M18 | -2.850 | Negative |
| 27 A Blood, Clotted | UWA C51 | -2.499 | Negative |
| 28 A Blood, Clotted | WAL E8 | 2.070 | Negative |
| 29 A Blood, Clotted | YEL L16 | 4.412 | Negative |
| 30 A Blood, Clotted | EPI L9 | 2.655 | Negative |
| 31 A Blood, Clotted | FAN K23 | 8.044 | Negative |

Johne's Disease by ELISA : SOP-SERO-27

Negative: Antibodies to *M. paratuberculosis* were not detected. The animal is either not infected or in a very early, undetectable stage of infection.

Suspect: Low level of serum antibodies but above normal background levels. The animal may be in the early stages of infection. Cattle with this result are roughly 15 times more likely to be *M. paratuberculosis* infected than ELISA negative animals. Fecal culture or repeat serologic testing needed to resolve status.

Positive: Serum (cattle, goats, sheep)/milk (cattle only) antibodies to *M. paratuberculosis* detected. This animal is likely to be shedding the bacterium in its feces and possibly in its milk. Recommend animal be segregated.

Serology Test interpretation comments:

Caseous Lymphadenitis SHI-testing. : SOP-SERO-33

Synergistic Hemolysin-Inhibition Test (SHI-test) measures the antibody response to the exotoxin of *Corynebacterium pseudotuberculosis*, the causative agent of caseous lymphadenitis in sheep and goats, and pigeon fever or breastbone fever in horses.

Titers of < 1:8 are considered negative. The predictive value of negative titers is enhanced if all herd mates also test negative. *{Antibody negative results do not definitively rule out infection by C. pseudotuberculosis, therefore it is recommended that all abscesses be cultured regardless of antibody status. Antibody negative animals with an abscess should be isolated from herd mates.}*

Titers between 1:8 and 1:256 are interpreted as evidence of infection, colostral immunity or vaccination.

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SRLV - Small Ruminant Lentivirus (CAE/OPP) (cELISA) : SOP-SERO-32

Negative: No antibody to small ruminant lentivirus (SRLV) detected. Submit an additional serum sample drawn in 60 - 90 days in order to detect recent infection.

POSITIVE: Antibody to small ruminant lentivirus (SRLV) detected. A positive result indicates infection or passively acquired antibody via colostrum or serum therapy.

The percentage inhibition value is used only to determine the cutoff for detection (or non-detection) of specific antibody to Small Ruminant Lentivirus (CAE/OPP) per the kit manufacturer's requirements. It is NOT a substitute for antibody titer, nor is it used to predict clinical disease status or likelihood of developing clinical disease. If there are any questions regarding the assay, results or interpretation, please contact the laboratory and ask for the Consulting Microbiologist.

NOTE: SRLV includes caprine arthritis-encephalitis virus (CAEV) and ovine progressive pneumonia virus (OPPV)/ Maedi-Visna. Recent molecular epidemiology has shown both viruses are variants within a group best characterized as small ruminant lentiviruses. The c-ELISA detects both variants. For more information, please see the Animal Disease FAQ on the WADDL home page.