

Washington Animal Disease Diagnostic Lab

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**Case#: 2020-2685
Report Date: 03/06/20**

Submittal Date: 02/27/20
Owner: Curtis, Mary

Species: Domestic Goat
Breed: Nigerian Dwarf Goat

Age:
Sex:

Final Report:

Serology- Reported on 03/06/20 Authorized by James Evermann, Section Head

Please see Serology test interpretation comments at end of report

Sample	Animal	B.aborRB	Caseous	Q-fever
1 A Serum	Gretle	Neg	Neg	Not detected
2 A Serum	Pearl	Neg	Neg	Not detected
3 A Serum	Hansel	Neg	Neg	Not detected
4 A Serum	Athena	Neg	Neg	Not detected
5 A Serum	Fancy	Neg	Neg	Not detected
6 A Serum	Maleficant	Neg	Neg	Not detected
7 A Serum	Anastasia	Neg	Neg	Not detected
8 A Serum	Pyrrah	Neg	Neg	Not detected
9 A Serum	Pandora	Neg	Neg	Not detected
10 A Serum	Post Script	Neg	Neg	Not detected
11 A Serum	Edification	Neg	Neg	Not detected
12 A Serum	Cobalt	Neg	Neg	Not detected

Johne's Disease by ELISA

Specimen	Animal	SP ratio	Result
1 A Blood, Clotted	Gretle	0.001	Negative
2 A Blood, Clotted	Pearl	-0.002	Negative
3 A Blood, Clotted	Hansel	-0.002	Negative
4 A Blood, Clotted	Athena	0.005	Negative
5 A Blood, Clotted	Fancy	0.001	Negative
6 A Blood, Clotted	Maleficant	0.092	Negative
7 A Blood, Clotted	Anastasia	0.001	Negative
8 A Blood, Clotted	Pyrrah	0.050	Negative
9 A Blood, Clotted	Pandora	-0.001	Negative
10 A Blood, Clotted	Post Script	0.001	Negative
11 A Blood, Clotted	Edification	-0.001	Negative

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Johne's Disease by ELISA

Specimen	Animal	SP ratio	Result
12 A Blood, Clotted	Cobalt	0.004	Negative

Lentivirus ELISA goats/sheep

Specimen	Animal	% I	Result
1 A Blood, Clotted	Gretle	-4.709	Negative
2 A Blood, Clotted	Pearl	2.803	Negative
3 A Blood, Clotted	Hansel	-3.587	Negative
4 A Blood, Clotted	Athena	-1.794	Negative
5 A Blood, Clotted	Fancy	2.691	Negative
6 A Blood, Clotted	Maleficant	-3.027	Negative
7 A Blood, Clotted	Anastasia	-10.090	Negative
8 A Blood, Clotted	Pyrrah	-5.045	Negative
9 A Blood, Clotted	Pandora	-2.354	Negative
10 A Blood, Clotted	Post Script	1.682	Negative
11 A Blood, Clotted	Edification	-1.682	Negative
12 A Blood, Clotted	Cobalt	-2.578	Negative

Pregnancy Test by ELISA

Specimen	Animal	S - N Ratio	Result
1 A Blood, Clotted	Gretle	0.005	Open

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:

Brucella abortus (Small Ruminant - 3% Rose Bengal Card Test) : SOP-SERO-17

Negative (Neg): Negative for antibodies to *B. abortus*, *B. suis* and *B. melitensis*.

POSITIVE (POS): Positive for antibodies to *B. abortus*, *B. suis*, and/or *B. melitensis*. FPA will be run per the directions of the District Epidemiological Officer.

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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.

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.

Pregnancy Test by ELISA : SOP-SERO-29

The IDEXX Pregnancy ELISA measures early pregnancy-associated glycoproteins (early PAGs) which develop 28-35 days after conception

Animals with ELISA S - N values less than 0.300 are considered open or in the first month of pregnancy prior to the development of detectable levels of early PAGs.

Animals with ELISA S - N values equal to or greater than 0.300 are considered pregnant. Embryonic death is common in early stages of pregnancy. PAGs can circulate in animals for some time after early embryonic death.

An optional recheck of the animal collected 7-10 days after the first sample collection is recommended if the S - N value is equal to or greater than 0.300 and less than 1.00.

WADDL encourages producers to work closely with their Veterinarian to develop a reproductive management program that is appropriate for their operation. For more information, please see the Animal Disease FAQ on the WADDL home page.

Q Fever (Coxiella burnetii) ELISA : SOP-SERO-52

Not detected: No Coxiella burnetii-specific antibody detected.

Suspect: Indeterminate test result. Recommend submission of additional sample for re-testing.

Detected: Coxiella burnetii-specific antibody detected in sample. Indicates previous or current infection with Coxiella burnetii.
Animals with positive detection level less than 6 months of age may have acquired maternal antibodies due to passive transfer.
Recommend re-testing after 6 months of age.

For more information, please see the Animal Disease FAQ on the WADDL home page.