

# Washington Animal Disease Diagnostic Lab

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Case#: 2021-5624  
Report Date: 04/20/21

[REDACTED]  
[REDACTED]  
Beaver Crossing, NE 68313

Submittal Date: 04/15/21  
[REDACTED]

Species: Domestic Goat  
Breed: Nigerian Dwarf Goat

Age:  
Sex:

## Final Report:

**Serology- Reported on 04/20/21** Authorized by James Evermann, Section Head

Please see Serology test interpretation comments at end of report

Sample	Animal	B.aborRB	Caseous
1 A Serum	Boris	Neg	Neg
2 A Serum	Handsome		Neg
3 A Serum	Moonbeam		Neg
4 A Serum	Sage		Neg
5 A Serum	Desiree		Neg
6 A Serum	Rizzo		Neg
7 A Serum	Lacey		Neg
8 A Serum	Sandy		Neg
9 A Serum	Blondie		Neg
10 A Serum	Summer		Neg
11 A Serum	Mercedes		Neg
12 A Serum	Fawn		Neg
13 A Serum	Darla		Neg
14 A Serum	Ginger		Neg
15 A Serum	Ironman	Neg	Neg
16 A Serum	Rusty	Neg	Neg

### Johne's Disease by ELISA

Specimen	Animal	SP ratio	Result
1 A Blood, Clotted	Boris	-0.001	Negative
2 A Blood, Clotted	Handsome	-0.002	Negative
3 A Blood, Clotted	Moonbeam	-0.003	Negative
4 A Blood, Clotted	Sage	0.003	Negative
5 A Blood, Clotted	Desiree	0.002	Negative
6 A Blood, Clotted	Rizzo	-0.001	Negative
7 A Blood, Clotted	Lacey	-0.004	Negative

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## Johne's Disease by ELISA

Specimen	Animal	SP ratio	Result
8 A Blood, Clotted	Sandy	0.000	Negative
9 A Blood, Clotted	Blondie	-0.001	Negative
10 A Blood, Clotted	Summer	0.000	Negative
11 A Blood, Clotted	Mercedes	-0.004	Negative
12 A Blood, Clotted	Fawn	0.000	Negative
13 A Blood, Clotted	Darla	-0.001	Negative
14 A Blood, Clotted	Ginger	-0.003	Negative
15 A Blood, Clotted	Ironman	-0.003	Negative
16 A Blood, Clotted	Rusty	0.000	Negative

## Lentivirus ELISA goats/sheep

Specimen	Animal	% I	Result
1 A Blood, Clotted	Boris	-7.275	Negative
2 A Blood, Clotted	Handsome	-0.248	Negative
3 A Blood, Clotted	Moonbeam	-8.543	Negative
4 A Blood, Clotted	Sage	-4.718	Negative
5 A Blood, Clotted	Desiree	-4.418	Negative
6 A Blood, Clotted	Rizzo	1.130	Negative
7 A Blood, Clotted	Lacey	-1.494	Negative
8 A Blood, Clotted	Sandy	-5.574	Negative
9 A Blood, Clotted	Blondie	-2.239	Negative
10 A Blood, Clotted	Summer	-1.594	Negative
11 A Blood, Clotted	Mercedes	-5.029	Negative
12 A Blood, Clotted	Fawn	-2.016	Negative
13 A Blood, Clotted	Darla	4.566	Negative
14 A Blood, Clotted	Ginger	3.999	Negative
15 A Blood, Clotted	Ironman	-1.694	Negative
16 A Blood, Clotted	Rusty	-0.593	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.

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## 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.

### **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.*