

Washington Animal Disease Diagnostic Lab

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**Case#: 2020-4478
Report Date: 04/14/20**

Beaver Crossing, NE 68313

Submittal Date: 04/09/20

Species: Domestic Goat

Age:

Breed: Nigerian Dwarf Goat

Sex:

Final Report:

Serology- Reported on 04/14/20 Authorized by James Evermann, Section Head

Please see Serology test interpretation comments at end of report

Sample	Animal	Caseous
1 A Serum	Mia	Neg
2 A Serum	Bunny	Neg
3 A Serum	Desiree	Neg
4 A Serum	Fawn	Neg
5 A Serum	Darla	Neg
6 A Serum	Ginger	Neg
7 A Serum	Rusty	Neg
8 A Serum	Silver	Neg
9 A Serum	Moonbeam	Neg
10 A Serum	Handsome	Neg

Johne's Disease by ELISA

Specimen	Animal	SP ratio	Result
1 A Blood, Serum Separator Tube	Mia	0.001	Negative
2 A Blood, Serum Separator Tube	Bunny	0.003	Negative
3 A Blood, Serum Separator Tube	Desiree	-0.001	Negative
4 A Blood, Serum Separator Tube	Fawn	-0.001	Negative
5 A Blood, Serum Separator Tube	Darla	-0.001	Negative
6 A Blood, Serum Separator Tube	Ginger	-0.003	Negative
7 A Blood, Serum Separator Tube	Rusty	-0.003	Negative
8 A Blood, Serum Separator Tube	Silver	0.001	Negative
9 A Blood, Serum Separator Tube	Moonbeam	-0.002	Negative
10 A Blood, Serum Separator Tube	Handsome	-0.002	Negative

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Lentivirus ELISA goats/sheep

Specimen	Animal	% I	Result
1 A Blood, Serum Separator Tube	Mia	-3.042	Negative
2 A Blood, Serum Separator Tube	Bunny	-5.823	Negative
3 A Blood, Serum Separator Tube	Desiree	-6.269	Negative
4 A Blood, Serum Separator Tube	Fawn	-1.150	Negative
5 A Blood, Serum Separator Tube	Darla	-1.929	Negative
6 A Blood, Serum Separator Tube	Ginger	5.527	Negative
7 A Blood, Serum Separator Tube	Rusty	1.966	Negative
8 A Blood, Serum Separator Tube	Silver	2.967	Negative
9 A Blood, Serum Separator Tube	Moonbeam	-0.927	Negative
10 A Blood, Serum Separator Tube	Handsome	4.970	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.