

Washington Animal Disease Diagnostic Lab

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**Dr. Kathy Thigpin
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14801 May Rd.**

**Case#: 2020-13400
Report Date: 10/13/20**

Sale Creek, TN 37373

Submittal Date: 10/08/20
Owner: Daisy Creek Dairy

Species: Domestic Goat

Age:
Sex:

Final Report:

Serology- Reported on 10/13/20 Authorized by James Evermann, Section Head

Please see Serology test interpretation comments at end of report

Sample	Animal	Caseous
1 A Serum	Cotton	Neg
2 A Serum	Fleur De Lea	Neg
3 A Serum	Hope Jazmin	Neg
4 A Serum	Juleigha	Neg
5 A Serum	Lava	Neg
6 A Serum	Leela Amelia	Neg
7 A Serum	Lila	Neg
8 A Serum	Lenora Jean	Neg
9 A Serum	Lilac Rose	Neg
10 A Serum	Logahn	Neg
11 A Serum	Lotti Ann	Neg
12 A Serum	Maggie	Neg
13 A Serum	Magma	Neg
14 A Serum	Marsh	Neg
15 A Serum	Mayflower	Neg
16 A Serum	Mint	Neg
17 A Serum	Minuet	Neg
18 A Serum	Moana	Neg
19 A Serum	Stormy	Neg
20 A Serum	Zadora	Neg
21 A Serum	Zanterdeshia	Neg
22 A Serum	Mango	Neg

Johne's Disease by ELISA

Specimen	Animal	SP ratio	Result
1 A Blood, Serum Separator Tube	Cotton	-0.004	Negative

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Johne's Disease by ELISA

Specimen	Animal	SP ratio	Result
2 A Blood, Serum Separator Tube	Fleur De Lea	-0.002	Negative
3 A Blood, Serum Separator Tube	Hope Jazmin	-0.003	Negative
4 A Blood, Serum Separator Tube	Juleigha	-0.004	Negative
5 A Blood, Serum Separator Tube	Lava	-0.004	Negative
6 A Blood, Serum Separator Tube	Leela Amelia	-0.002	Negative
7 A Blood, Serum Separator Tube	Lila	-0.002	Negative
8 A Blood, Serum Separator Tube	Lenora Jean	-0.005	Negative
9 A Blood, Serum Separator Tube	Lilac Rose	-0.005	Negative
10 A Blood, Serum Separator Tube	Logahn	-0.003	Negative
11 A Blood, Serum Separator Tube	Lotti Ann	-0.001	Negative
12 A Blood, Serum Separator Tube	Maggie	-0.003	Negative
13 A Blood, Serum Separator Tube	Magma	-0.006	Negative
14 A Blood, Serum Separator Tube	Marsh	-0.004	Negative
15 A Blood, Serum Separator Tube	Mayflower	-0.004	Negative
16 A Blood, Serum Separator Tube	Mint	-0.006	Negative
17 A Blood, Serum Separator Tube	Minuet	-0.005	Negative
18 A Blood, Serum Separator Tube	Moana	0.003	Negative
19 A Blood, Serum Separator Tube	Stormy	-0.004	Negative
20 A Blood, Serum Separator Tube	Zadora	-0.005	Negative
21 A Blood, Serum Separator Tube	Zanterdeshia	0.012	Negative
22 A Blood, Serum Separator Tube	Mango	-0.005	Negative

Lentivirus ELISA goats/sheep

Specimen	Animal	% I	Result
1 A Blood, Serum Separator Tube	Cotton	-20.866	Negative
2 A Blood, Serum Separator Tube	Fleur De Lea	-4.082	Negative
3 A Blood, Serum Separator Tube	Hope Jazmin	-5.982	Negative
4 A Blood, Serum Separator Tube	Juleigha	-3.343	Negative
5 A Blood, Serum Separator Tube	Lava	-11.682	Negative
6 A Blood, Serum Separator Tube	Leela Amelia	-0.493	Negative
7 A Blood, Serum Separator Tube	Lila	-3.132	Negative
8 A Blood, Serum Separator Tube	Lenora Jean	-3.132	Negative
9 A Blood, Serum Separator Tube	Lilac Rose	-0.070	Negative
10 A Blood, Serum Separator Tube	Logahn	-0.598	Negative
11 A Blood, Serum Separator Tube	Lotti Ann	-1.126	Negative
12 A Blood, Serum Separator Tube	Maggie	-3.448	Negative
13 A Blood, Serum Separator Tube	Magma	-6.193	Negative
14 A Blood, Serum Separator Tube	Marsh	-4.293	Negative
15 A Blood, Serum Separator Tube	Mayflower	-6.510	Negative
16 A Blood, Serum Separator Tube	Mint	-0.809	Negative
17 A Blood, Serum Separator Tube	Minuet	-3.237	Negative
18 A Blood, Serum Separator Tube	Moana	2.357	Negative
19 A Blood, Serum Separator Tube	Stormy	-2.287	Negative
20 A Blood, Serum Separator Tube	Zadora	-1.654	Negative
21 A Blood, Serum Separator Tube	Zanterdeshia	9.747	Negative
22 A Blood, Serum Separator Tube	Mango	-1.865	Negative

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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.

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.