

Washington Animal Disease Diagnostic Lab

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**Dr. Kathy Thigpin
Sale Creek Vet Services
14801 May Rd.**

**Case#: 2019-15917
Report Date: 11/14/19**

Sale Creek, TN 37373

Submittal Date: 11/12/19
Owner: Thigpin Watson, Kathy

Species: Domestic Goat

Age:
Sex:

Final Report:

Serology- Reported on 11/14/19 Authorized by James Evermann, Section Head

Please see Serology test interpretation comments at end of report

Sample	Animal	Caseous
7 A Serum	Juleigha	Neg
10 A Serum	Lava	Neg
17 A Serum	Marsh	Neg
18 A Serum	Striker	Neg

Johne's Disease by ELISA

Specimen	Animal	SP ratio	Result
7 A Blood, Serum Separator Tube	Juleigha	0.002	Negative
10 A Blood, Serum Separator Tube	Lava	-0.002	Negative
17 A Blood, Serum Separator Tube	Marsh	-0.002	Negative
18 A Blood, Serum Separator Tube	Striker	-0.000	Negative

Lentivirus ELISA goats/sheep

Specimen	Animal	% I	Result
1 A Blood, Serum Separator Tube	Cotton	-14.069	Negative
2 A Blood, Serum Separator Tube	Destin	-1.395	Negative
3 A Blood, Serum Separator Tube	Faith	-2.502	Negative
4 A Blood, Serum Separator Tube	Lea	-1.518	Negative
5 A Blood, Serum Separator Tube	Holly	3.651	Negative
6 A Blood, Serum Separator Tube	Jazmin	2.297	Negative
7 A Blood, Serum Separator Tube	Juleigha	9.188	Negative
8 A Blood, Serum Separator Tube	Kitty	2.789	Negative
9 A Blood, Serum Separator Tube	Lacey	-1.272	Negative
10 A Blood, Serum Separator Tube	Lava	-3.733	Negative
11 A Blood, Serum Separator Tube	Leela	7.219	Negative

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Lentivirus ELISA goats/sheep

Specimen	Animal	% I	Result
12 A Blood, Serum Separator Tube	Lenora	6.481	Negative
13 A Blood, Serum Separator Tube	Lilac	2.174	Negative
14 A Blood, Serum Separator Tube	Lotti	11.403	Negative
15 A Blood, Serum Separator Tube	Lucy	4.758	Negative
16 A Blood, Serum Separator Tube	Lupin	7.957	Negative
17 A Blood, Serum Separator Tube	Marsh	0.697	Negative
18 A Blood, Serum Separator Tube	Striker	4.635	Negative
19 A Blood, Serum Separator Tube	Dora	3.651	Negative
20 A Blood, Serum Separator Tube	DeeDee	12.387	Negative
21 A Blood, Serum Separator Tube	Kiwi	9.065	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.