

# Washington Animal Disease Diagnostic Lab

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2435 Milton Mills Rd**

**Acton, ME 04001**

**Case#: 2017-14572  
Report Date: 11/14/17**

Submittal Date: 11/09/17  
Owner: Mullen, Larissa

Species: Domestic Goat  
Breed: Nigerian Dwarf Goat

Age:  
Sex:

## Final Report:

**Serology- Reported on 11/14/17** Authorized by James Evermann, Section Head

Please see Serology test interpretation comments at end of report

Sample	Animal	Caseous
1 A Serum	PowPow RE BC3 / LE T6	Neg
2 A Serum	Summer RE 55LSPZ / LE W5	Neg
3 A Serum	Connie RE LKC1 / LE W25	Neg
4 A Serum	Jill RE A2G / LE A48	Neg
5 A Serum	Annika RE A2G / LE 210B	Neg
6 A Serum	Sansa RE TINY / LE E 1	Neg
7 A Serum	April RE SPZ / LE E32	Neg
8 A Serum	Lois RE TINY / LE F3	Neg
9 A Serum	Aurum RE TINY / LE H1	Neg
10 A Serum	Penta RE TINY / LE H5	Neg
11 A Serum	Bunny RE TINY / LE H4	Neg
12 A Serum	Mini Pow RE TINY / LE H6	Neg
13 A Serum	Pixie RE TINY / LE J1	Neg
14 A Serum	Karl RE TINY / LE F6	Neg
15 A Serum	Linus RE SPZ / LE E49	Neg
16 A Serum	Pez RE TINY / LE J2	Neg
17 A Serum	PeeWee RE A2G / LE E61	Neg

## Johne's Disease by ELISA

Specimen	Animal	SP ratio	Result
1 A Blood, Serum Separator Tube	PowPow RE BC3 / LE T6	-0.004	Negative
2 A Blood, Serum Separator Tube	Summer RE 55LSPZ / LE W5	-0.003	Negative
3 A Blood, Serum Separator Tube	Connie RE LKC1 / LE W25	-0.006	Negative
4 A Blood, Serum Separator Tube	Jill RE A2G / LE A48	-0.006	Negative
5 A Blood, Serum Separator Tube	Annika RE A2G / LE 210B	-0.004	Negative
6 A Blood, Serum Separator Tube	Sansa RE TINY / LE E 1	-0.006	Negative

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## Johne's Disease by ELISA

Specimen	Animal	SP ratio	Result
7 A Blood, Serum Separator Tube	April RE SPZ / LE E32	-0.005	Negative
8 A Blood, Serum Separator Tube	Lois RE TINY / LE F3	-0.006	Negative
9 A Blood, Serum Separator Tube	Aurum RE TINY / LE H1	-0.006	Negative
10 A Blood, Serum Separator Tube	Penta RE TINY / LE H5	-0.005	Negative
11 A Blood, Serum Separator Tube	Bunny RE TINY / LE H4	-0.006	Negative
12 A Blood, Serum Separator Tube	Mini Pow RE TINY / LE H6	-0.004	Negative
13 A Blood, Serum Separator Tube	Pixie RE TINY / LE J1	-0.005	Negative
14 A Blood, Serum Separator Tube	Karl RE TINY / LE F6	-0.002	Negative
15 A Blood, Serum Separator Tube	Linus RE SPZ / LE E49	-0.005	Negative
16 A Blood, Serum Separator Tube	Pez RE TINY / LE J2	-0.006	Negative
17 A Blood, Serum Separator Tube	PeeWee RE A2G / LE E61	-0.005	Negative

## Lentivirus ELISA goats/sheep

Specimen	Animal	% I	Result
1 A Blood, Serum Separator Tube	PowPow RE BC3 / LE T6	13.141	Negative
2 A Blood, Serum Separator Tube	Summer RE 55LSPZ / LE W5	-5.027	Negative
3 A Blood, Serum Separator Tube	Connie RE LKC1 / LE W25	-4.281	Negative
4 A Blood, Serum Separator Tube	Jill RE A2G / LE A48	-1.792	Negative
5 A Blood, Serum Separator Tube	Annika RE A2G / LE 210B	-7.143	Negative
6 A Blood, Serum Separator Tube	Sansa RE TINY / LE E 1	-2.414	Negative
7 A Blood, Serum Separator Tube	April RE SPZ / LE E32	-11.000	Negative
8 A Blood, Serum Separator Tube	Lois RE TINY / LE F3	-7.392	Negative
9 A Blood, Serum Separator Tube	Aurum RE TINY / LE H1	-5.898	Negative
10 A Blood, Serum Separator Tube	Penta RE TINY / LE H5	-11.125	Negative
11 A Blood, Serum Separator Tube	Bunny RE TINY / LE H4	-11.498	Negative
12 A Blood, Serum Separator Tube	Mini Pow RE TINY / LE H6	-15.978	Negative
13 A Blood, Serum Separator Tube	Pixie RE TINY / LE J1	-17.845	Negative
14 A Blood, Serum Separator Tube	Karl RE TINY / LE F6	-12.120	Negative
15 A Blood, Serum Separator Tube	Linus RE SPZ / LE E49	-5.401	Negative
16 A Blood, Serum Separator Tube	Pez RE TINY / LE J2	4.057	Negative
17 A Blood, Serum Separator Tube	PeeWee RE A2G / LE E61	1.444	Negative

## Johne's Disease by ELISA SOP: 203.3.2.2015.07.27

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: 203.9.1.2016.12.01

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: 203.16.1.2014.10.22

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 on CAE, please reference: <http://waddl.vetmed.wsu.edu/animal-disease-faq/cae>*