

Washington Animal Disease Diagnostic Lab

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8751 Old Castle Rd.**

Escondido, CA 92026

**Case#: 2021-11963
Report Date: 08/05/21**

Submittal Date: 08/03/21
Owner: Orillion, Marie

Species: Domestic Goat
Breed: Nigerian Dwarf Goat

Age:
Sex: Male

Final Report:

Serology- Reported on 08/05/21 Authorized by James Evermann, Section Head

Please see Serology test interpretation comments at end of report

Sample	Animal	Caseous	Q-fever
1 A Serum	Barbossa	Neg	Not detected
2 A Serum	Panache	Neg	Not detected
3 A Serum	Manhattan	Neg	Not detected
4 A Serum	Adino	Neg	Not detected
5 A Serum	Rye	Neg	Not detected
6 A Serum	Kid	Neg	Not detected
7 A Serum	Aries	Neg	Not detected
8 A Serum	Barbados	Neg	Not detected

Johne's Disease by ELISA

Specimen	Animal	SP ratio	Result
1 A Blood, Serum Separator Tube	Barbossa	0.002	Negative
2 A Blood, Serum Separator Tube	Panache	0.002	Negative
3 A Blood, Serum Separator Tube	Manhattan	0.001	Negative
4 A Blood, Serum Separator Tube	Adino	-0.002	Negative
5 A Blood, Serum Separator Tube	Rye	0.001	Negative
6 A Blood, Serum Separator Tube	Kid	0.001	Negative
7 A Blood, Serum Separator Tube	Aries	0.001	Negative
8 A Blood, Serum Separator Tube	Barbados	-0.002	Negative

Lentivirus ELISA goats/sheep

Specimen	Animal	% I	Result
1 A Blood, Serum Separator Tube	Barbossa	1.588	Negative
2 A Blood, Serum Separator Tube	Panache	-2.242	Negative
3 A Blood, Serum Separator Tube	Manhattan	2.430	Negative

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Lentivirus ELISA goats/sheep

Specimen	Animal	% I	Result
4 A Blood, Serum Separator Tube	Adino	-7.325	Negative
5 A Blood, Serum Separator Tube	Rye	-2.868	Negative
6 A Blood, Serum Separator Tube	Kid	-11.350	Negative
7 A Blood, Serum Separator Tube	Aries	-7.284	Negative
8 A Blood, Serum Separator Tube	Barbados	-1.225	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, colostrum 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.

Q Fever (Coxiella burnetii) ELISA : SOP-SERO-52

Not detected: No Coxiella burnetii-specific antibody detected.

Suspect: Indeterminate test result. Recommend submission of additional sample for re-testing.

Detected: Coxiella burnetii-specific antibody detected in sample. Indicates previous or current infection with Coxiella burnetii. Animals with positive detection level less than 6 months of age may have acquired maternal antibodies due to passive transfer. Recommend re-testing after 6 months of age.

For more information, please see the Animal Disease FAQ on the WADDL home page.