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# UC DAVIS VETERINARY MEDICINE

California Animal Health and  
Food Safety Laboratory  
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CAHFS Accession #: D2000370

## FINAL REPORT

Ref.#:

**Coordinator:** Ashley Hill, DVM, MPVM, PhD  
**E-Signed and Authorized by:** Hill, Ashley on  
1/14/2020 4:32:34PM

**Email To:**  
Cascade Valley Heritage Farm  
info@cvhfarm.com

**Collection Site:**  
Cascade Valley Heritage Farm - Priya Tuvell  
Chico CA 95973  
Butte County

**This report supersedes all previous reports for this case**

**Specimens Received:** 6 Clotted Blood - RTT;

**Date Collected:** 01/07/2020    **Date Received:** 01/09/2020

**Comments:** 6 RTT

### Case Contacts

Submitter	Cascade Valley Heritage Farm	925-768-8686	115 Santa Fe Ln	Chico	CA	95973
Report To	Specht, Sara Lynn	530-674-1660	4839 E Butte Rd	Live Oak	CA	95953

### Specimen Details

Animal/Source	ID Type	Taxonomy	Gender	Age
1	CAHFS Internal ID	Nigerian Dwarf goat	Female	Adult

### Laboratory Findings/Diagnosis

6 of 6 negative for antibodies to Brucella, Coxiella, Corynebacterium pseudotuberculosis, M. paratuberculosis, and CAE virus.  
5 of 5 positive for pregnancy-associated glycoprotein.

### Clinical History

Standard disease prevention testing for dairy show animals, and pregnancy check.  
Treatments CDT vxn every 6m, Copper Bolus 4/20/19.

### Immunology

#### Test Specific Comments

##### Caprine arthritis encephalitis / ovine progressive pneumonia antibody cELISA

\* Results in the suspect range may be caused by early-stage infection, or may be temporary cross-reaction due to recent vaccination, stress, or other illness. Re-testing the animal in 3-4 weeks is recommended. Most suspect results due to temporary cross-reaction revert to negative in this time period.

##### Corynebacterium pseudotuberculosis antibody - SHI

- \* *C. pseudotuberculosis* SHI titers less than 1:8 are not considered significant. Titers may indicate active infection or historic exposure.  
 In small ruminants, *C. pseudotuberculosis* titers of 1:8 occur with similar frequency in animals with and without active infection and may represent early infection or historic exposure. Titers 1:16-1:32 occur 4 times more often in animals with active infection (vs. those without infection), and titers 1:64->=1:256 occur 8.5 times more often in animals with active infection (vs. those without).  
 In horses, titers 1:8-1:128 are typically seen in animals with historic infection with or exposure to *C. pseudotuberculosis*, with external infection, or in the early stages of infection. Titers >=1:256 may be seen with active infection (external, internal) or exposure to the organism. In the absence of external abscesses, and with other indicators of chronic inflammation (such as high WBC, high globulin, others), titers >1:512 are associated with internal abscess formation.

**M. paratuberculosis (Johne's Disease) Antibody ELISA**

- \* In cattle, *Mycobacterium paratuberculosis* (Johne's disease) ELISA test results are interpreted as negative if less than or equal to 0.450, suspect if greater than 0.450 but less than 0.550, and positive if greater than or equal to 0.550. At the 0.550 cutoff, test sensitivity and specificity are estimated at 68% and 99%, respectively, in cattle.  
 In sheep and goats, *Mycobacterium paratuberculosis* (Johne's disease) ELISA test results are interpreted as negative if less than or equal to 0.100, suspect if greater than 0.100 but less than 0.300, and positive if greater than or equal to 0.300. At the 0.300 cutoff, test sensitivity and specificity are estimated at 51% and 95%, respectively, in small ruminants.

**Pregnancy Test - ELISA**

- \* For use in cattle and goats from 28 days post-breeding, in buffalo from 30 days post-breeding, and in sheep from 35 days post-breeding. In goats, diagnostic specificity estimated at 97%, with diagnostic sensitivity estimated at 89% for animals bred 28-30 days earlier, and 97% for animals bred more than 30 days earlier. Se/Sp of 99%/94% reported for cattle, 98%/100% for sheep, and 100%/91% for buffalo.

**Brucella (B. melitensis) 3% Rose Bengal antibody test**

Animal/Source	Specimen	Specimen Type	Results
1	(1) Juna	Clotted Blood - RTT	Negative
1	(2) Dolce	Clotted Blood - RTT	Negative
1	(3) Emerald	Clotted Blood - RTT	Negative
1	(4) Denali	Clotted Blood - RTT	Negative
1	(5) Sunspot DSN	Clotted Blood - RTT	Negative
1	(6) Aspen	Clotted Blood - RTT	Negative

**Caprine arthritis encephalitis / ovine progressive pneumonia antibody cELISA**

Animal/Source	Specimen	Specimen Type	Results
1	(1) Juna	Clotted Blood - RTT	-0.36 Neg
1	(2) Dolce	Clotted Blood - RTT	-7.48 Neg
1	(3) Emerald	Clotted Blood - RTT	-4.99 Neg
1	(4) Denali	Clotted Blood - RTT	-2.38 Neg
1	(5) Sunspot DSN	Clotted Blood - RTT	-3.92 Neg
1	(6) Aspen	Clotted Blood - RTT	0.48 Neg

**Corynebacterium pseudotuberculosis antibody - SHI**

Animal/Source	Specimen	Specimen Type	Results
1	(1) Juna	Clotted Blood - RTT	Neg @1:8
1	(2) Dolce	Clotted Blood - RTT	Neg @1:8
1	(3) Emerald	Clotted Blood - RTT	Neg @1:8
1	(4) Denali	Clotted Blood - RTT	Neg @1:8
1	(5) Sunspot DSN	Clotted Blood - RTT	Neg @1:8

1 (6) Aspen Clotted Blood - RTT Neg @1:8

**Coxiella burnetii (Q Fever) antibody ELISA**

Animal/Source	Specimen	Specimen Type	Results
1	(1) Juna	Clotted Blood - RTT	Negative
1	(2) Dolce	Clotted Blood - RTT	Negative
1	(3) Emerald	Clotted Blood - RTT	Negative
1	(4) Denali	Clotted Blood - RTT	Negative
1	(5) Sunspot DSN	Clotted Blood - RTT	Negative
1	(6) Aspen	Clotted Blood - RTT	Negative

**M. paratuberculosis (Johnes Disease) Antibody ELISA**

Animal/Source	Specimen	Specimen Type	Results
1	(1) Juna	Clotted Blood - RTT	0.006
1	(2) Dolce	Clotted Blood - RTT	0.00
1	(3) Emerald	Clotted Blood - RTT	0.00
1	(4) Denali	Clotted Blood - RTT	0.001
1	(5) Sunspot DSN	Clotted Blood - RTT	0.001
1	(6) Aspen	Clotted Blood - RTT	0.00

**Pregnancy Test - ELISA**

Animal/Source	Specimen	Specimen Type	Results
1	(1) Juna	Clotted Blood - RTT	Positive
1	(2) Dolce	Clotted Blood - RTT	Positive
1	(3) Emerald	Clotted Blood - RTT	Positive
1	(5) Sunspot DSN	Clotted Blood - RTT	Positive
1	(6) Aspen	Clotted Blood - RTT	Positive