

# Washington Animal Disease Diagnostic Lab

P.O. Box 647034  
Pullman, WA 99164-7034  
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Dixie Rock Ranch  
35146 132nd Street

Ipswich, SD 57451

Case#: 2010-1647  
Report Date: 02/18/10

Submittal Date: 02/15/10  
Owner: Dixie Rock Ranch,

Species: Domestic Goat

Age:  
S-

## Final Report:

**Serology- Reported on 02/18/10** Authorized by James Evermann, Section Head

Please see Serology test interpretation comments at end of report

Sample	Animal	CAE	Caseous	John's
1 A Serum	Dolly	Neg	Neg	Neg - sold
2 A Serum	Apache	Neg	Neg	Neg
3 A Serum	Blue	Neg	Neg	Neg
4 A Serum	Eve	Neg	Neg	Neg - sold
5 A Serum	Pilot	Neg	Neg	Neg
6 A Serum	Minerva	Neg	Neg	Neg
7 A Serum	Ribeye	Neg	Neg	Neg - sold
8 A Serum	Maggie	Neg	Neg	Neg - sold
9 A Serum	Chicky	Neg	Neg	Neg
10 A Serum	Dixie	Neg	Neg	Neg
11 A Serum	Hannah	Neg	Neg	Neg
12 A Serum	Tiramisu	Neg	Neg	Neg
13 A Serum	Lilly	Neg	Neg	Neg - sold
14 A Serum	Domino	Neg	Neg	Neg
15 A Serum	Sunny	Neg	Neg	Neg
16 A Serum	Dusty	Neg	Neg	Neg
17 A Serum	Kissy	Neg	Neg	Neg - sold

## Serology Test interpretation comments:

Caprine Arthritis-Encephalitis (C-ELISA) SOP: 203.16.1.05.06.01

Negative No antibody detected. Submit convalescent serum (60-90d) to detect recent exposure.

POSITIVE Antibody present indicating infection, or passively acquired antibody via colostrum or serum therapy.

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## Caseous Lymphadenitis SHI-testing. SOP: 203.9.1.05.07.29

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. Titers of <1:8 for goats, and horses have been associated with false positive reactions (presumably due to common soil coryneforms). 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 or vaccine exposure, but current or active infection cannot be distinguished from residual antibody based on a single sample result in this range. For confirmation of active infection, paired samples for detecting a rise in titer should be collected 4 weeks apart to detect a 2-fold change in titer.*

*Titers of 1:512 and higher suggest current active infection.*

## Johne's Disease (Small Ruminant) ELISA SOP: 203.3.1.06.09.13

Negative: Antibodies to *M. paratuberculosis* were not detected. Animals classified as ELISA-negative are either not infected or not producing antibodies. Retesting in 6-12 months will increase confidence the animal is free of infection.

Inconclusive: Animals with ELISA results in this range are more likely to be *M. paratuberculosis*-infected than ELISA-negative animals. Retesting in approximately 30 to 60 days is recommended. Animals that remain inconclusive on retest should be tested by fecal culture.

Positive: Animals with ELISA values in this range are approximately 30-75 times more likely to be *M. paratuberculosis* infected than ELISA negative animals.

# Washington State University

## INVOICE

Invoice Number: **4145162**  
 Invoice Date: **02/19/2010**

Customer Number: <b>704430</b> <hr/> Customer Name and Address: Dixie Rock Ranch 35146 132nd Street  Ipswich, SD 57451  <hr/> Purchase Order Number:	Department: WA Animal Disease Diagnostic Laboratory  Phone: (509)335-9696 Fax: (509)335-7424  Special Instructions: Case #: 2010-1647 Owner: Dixie Rock Ranch Re
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Description	Subtotal	Amount
Caprine Arthritis Encephalitis ELISA      17 @ 6.00	102.00	
Caseous lymphadenitis - SHI      17 @ 9.00	153.00	
Johnes Disease ELISA (sheep/goats)      17 @ 6.00	102.00	
Serology (41615)		357.00
Accession Fee      1 @ 10.00	10.00	
Accession Fee (41611)		10.00
FedEx prepaid      1 @ 18.00	18.00	
FedEx (41611)		18.00
<b>Total Amount Due</b>		<b>385.00</b>

*The total amount is due upon receipt of this invoice.*

**Make checks payable to and remit to:**  
 Washington State University  
 Cashiers (WADDL)  
 PO Box 641039  
 Pullman WA 99164-1039  
 Or Call (509) 335-9696 with  
 Mastercard or VISA

- Checks should include:**
- Customer Number
  - Invoice Number
  - Subcodes if payment is not in full