

Report Date: 1/28/2022

Date Submitted: 1/26/2022 Collection Date: 1/24/2022 Final Report Case Coordinator: Dave Thompson

Accession No: S2202358

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Associated Parties

Veterinarian	JUSTIN L CUNFER	Vet Code:021383, BV012558
Vet Practice	CUNFER VETERINARY SERVICES	
Owner	GRETCHEN KOCHER	

Reference Data

Sample: BLOOD (13)

Lab Findings

Mammalian Serology

Specimen	ecimen Test Name		S/P	PI	S-N
PEANUT - Mammalian - Ca	prine / goat - Goat - Nigerian Dwarf - Female				
Tube or Vial - Serum - 1	Caseous Lymphadenitis (SHI)	Negative			
	Mycobacterium paratuberculosis : Johne's Disease (ELISA)	NEG	-0.004		
	Small ruminant lentivirus (cELISA)	NEG		2.8	
TOBY - Mammalian - Capri	ne / goat - Goat - Nigerian Dwarf - Neutered				
Tube or Vial - Serum - 2	Caseous Lymphadenitis (SHI)	Negative			
	Mycobacterium paratuberculosis : Johne's Disease (ELISA)	NEG	-0.003		
	Small ruminant lentivirus (cELISA)	NEG		1.2	
TRIXIE - Mammalian - Cap	rine / goat - Goat - Nigerian Dwarf - Female				
Tube or Vial - Serum - 3	Caseous Lymphadenitis (SHI)	Negative			
	Mycobacterium paratuberculosis : Johne's Disease (ELISA)	NEG	-0.003		
	Small ruminant lentivirus (cELISA)	NEG		3.1	
BELLE - Mammalian - Capr	ine / goat - Goat - Nigerian Dwarf - Female				
Tube or Vial - Serum - 4	Caseous Lymphadenitis (SHI)	Negative			
	Mycobacterium paratuberculosis : Johne's Disease (ELISA)	NEG	-0.004		
	Small ruminant lentivirus (cELISA)	NEG		-1.7	
MOHAWK - Mammalian - C	aprine / goat - Goat - Nigerian Dwarf - Neutered				
Tube or Vial - Serum - 5	Caseous Lymphadenitis (SHI)	Negative			
	Mycobacterium paratuberculosis : Johne's Disease (ELISA)	NEG	-0.004		
	Small ruminant lentivirus (cELISA)	NEG		-6.9	
SMOOCH - Mammalian - C	aprine / goat - Goat - Nigerian Dwarf - Neutered				
Tube or Vial - Serum - 6	Caseous Lymphadenitis (SHI)	Negative			
	Mycobacterium paratuberculosis : Johne's Disease (ELISA)	NEG	-0.005		
	Small ruminant lentivirus (cELISA)	NEG		-4.5	



Pennsylvania Animal Diagnostic Laboratory System PADLS - PVL Pennsylvania Veterinary Laboratory 2305 N. Cameron St Harrisburg PA 17110 Phone: (717) 787-8808

1.88				
1.000				
1 4 0 0				
1.498				
1				
2.124				
X The pregnancy status of the animal was determined by measuring the levels of				
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regnant				
(open). b. If the S-N value is equal to or greater than 0.300, the animal is considered				
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stages of cow pregnancy and PAGs can circulate in blood for some time after early embryonic death. An optional recheck of the animal 7 to 10 days later is recommended if the S-N value is equal to or greater than 0.300 and less than 1.000.

The IDEXX assay has been shown to have 99.3% Sensitivity (95% CL: 98.3%-99.7%) and 93.8% Specificity (95% CL: 91.2%-95.7%) for determining pregnancy in cows. The assay has been validated for the detection of pregnancy status in the following species with indicated specimen types.

- Cattle serum or EDTA plasma from 28 days post-breeding and from 60 days post calving
- Buffalo EDTA plasma from 30 days post-breeding and from 60 days post calving
- Goats serum from 28 days post breeding



	 Sheep serum - from 35 days post breeding 		
Small ruminant lentivirus(cELISA):	The Small Ruminant Lentivirus (SRLV) Antibody Test Kit, cELISA is a competitive, enzyme-linked, immunosorbent assay that detects antibodies to caprine arthritis encephalitis (CAEV) in goat sera or ovine progressive pneumonia virus (OPPV) in sheep sera. Serum samples with percent inhibition (PI) of equal to or greater than 35%, are classified "POSITIVE". Serum samples with percent inhibition (PI) of less than 35%, are classified as "NEGATIVE".		
Mycobacterium paratuberculos Disease(ELISA):	is : Johne's ELISA test for Johne's disease measures antibody response in milk and serum. To control or monitor Johne's disease, it is important to start with screening strategies like ELISA but use of organism based tests on rotational or combination basis ensures better success in management of the disease. Positive ELISA tests should be confirmed with organism based tests. Paired comparisons have shown that up to 5-6% animals that are positive with serum ELISA can still be negative on milk ELISA. Furthermore, some of the low shedders and rarely few high shedders may never be positive with Johne's Milk/Serum ELISA tests but still can keep spreading the disease on farms. Animals reported with S/P values >1.00 are more likely to have Johne's even though they may still be subclinical. All animals reported as suspect should be retested, monitored and/or followed with fecal culture to determine their infection status.		
	Interpretation Serum Negative S/P = 0.45; Suspect > 0.45-0.55; Positive =0.55		
0	Interpretation Milk Negative S/P = 0.20; Suspect < $0.20 - 0.30$; Positive = 0.30		
Caseous Lymphadenitis(SHI):	Detection of antibodies to Corynebacterium pseudotuberculosis exotoxin, the causative agent of caseous lymphadenitis, by synergistic hemolysin inhibition, performed at 1:8, 1:16, 1:32 and 1:64 dilutions. Positive samples with titers listed as 64 are actually $>$ or $=$ to 1:64.		
	The SHI test is intended as a herd test since the results for an individual animal can be misinterpreted. SHI cannot distinguish between field exposure, resolved infection or vaccination antibodies. Recently infected animals may not elicit a detectable antibody response. Kids and lambs should be at least 6 months old before testing because of the possible presence of maternal antibodies. For biosecurity purposes, it is recommended that new animals be tested for CLA prior to introducing them into a herd. It is preferable to test the herd of origin. Herds with a high incidence of positive SHI results strongly suggest the presence of the bacterium. Testing the blood of new animals before they are introduced to a herd or flock can reduce the likelihood of introducing a carrier animal.		

General Results

The IDEXX ELISA kit was used for Johne's disease testing. The kit is not currently approved in the US but is approved in Europe for the diagnosis of ovine and caprine Johne's disease. The sensitivity of the ELISA in sheep and goats for Johne's diagnosis is 34.9% and 56.4%, with a specificity of 98.8% and 100.0%, respectively. The test has higher sensitivity than the AGID test and uses a cut-off value of = 0.55 for positives. Fecal samples from suspect or positive animals can be cultured or tested by PCR for confirming the disease diagnosis.

Corynebacterium pseudotuberculosis infections can lead to false positives due to cross-reactive antibodies. The possibility of animals having caseous lymphadenitis (CL) or a previous exposure should also be considered when assessing Johne's ELISA positive lab results.

Client Report History

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Report Type	Delivery Method	Sent To	Date Sent
Final	Email	CUNFERVETSERVICES@PTD.NET	1/28/2022 3:59 PM