

Report Date: 1/26/2024

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Accession No: S2401952

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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: 27 BLOOD

Lab Findings

Mammalian Serology

Specimen	Test Name	Result	S/P	PI	S-N	
INDIA BLUE N AZALEA - Mammalian - Caprine / goat - Goat - Nigerian Dwarf - Female						
Blood - 1	Caseous Lymphadenitis (SHI)	NEG				
	Mycobacterium paratuberculosis : Johne's Disease (ELISA)	NEG	0.009			
	Small ruminant lentivirus (cELISA)	NEG		-0.8		
GOATS@GRACE HILL HS SABINEWREN - Mammalian - Caprine / goat - Goat - Nigerian Dwarf - Female						
Blood - 2 Caseous Lymphadenitis (SHI)						
	Mycobacterium paratuberculosis : Johne's Disease (ELISA)	NEG	0.000			
	Small ruminant lentivirus (cELISA)	NEG		6.3		
BEE - Mammalian - Caprine / goat - Goat - Boer - Female						
Blood - 3	Caseous Lymphadenitis (SHI)	NEG				
	Mycobacterium paratuberculosis : Johne's Disease (ELISA)	NEG	0.279			
	Small ruminant lentivirus (cELISA)	NEG		0.9		
INDIA BLUE JD ENDLESS LOVE - Mammalian - Caprine / goat - Goat - Nigerian Dwarf - Female						
Blood - 4	Bovine pregnancy test (IDEXX ELISA)	Open			0.023	
	Caseous Lymphadenitis (SHI)	NEG				
	Mycobacterium paratuberculosis : Johne's Disease (ELISA)	NEG	0.004			
	Small ruminant lentivirus (cELISA)	NEG		2.8		
GOATS@GRACE HILL H BO-KATAN - Mammalian - Caprine / goat - Goat - Nigerian Dwarf - Female						
Blood - 5	Caseous Lymphadenitis (SHI)	NEG				
	Mycobacterium paratuberculosis : Johne's Disease (ELISA)	NEG	0.004			
	Small ruminant lentivirus (cELISA)	NEG		3.3		
BETTER WAYZ BH MAROCCHINO - Mammalian - Caprine / goat - Goat - Nigerian Dwarf - Male						
Blood - 6	Caseous Lymphadenitis (SHI)	NEG				
	Mycobacterium paratuberculosis : Johne's Disease (ELISA)	NEG	0.001			
	Small ruminant lentivirus (cELISA)	NEG		-2.1		



Specimen	Test Name	Result	S/P	<u></u>	S-N
	RACE HILL HS FOXGLOVE - Mammalian - Caprine / goat - Goa		<u>Dwarf -</u>	Female	1
Blood - 7	Caseous Lymphadenitis (SHI)	NEG			
	Mycobacterium paratuberculosis : Johne's Disease (ELISA)	NEG	0.009		
	Small ruminant lentivirus (cELISA)	NEG		6.3	
SUDALO	RACE HILL S HIS GRACE - Mammalian - Caprine / goat - Goat	Nigerian I	Dwarf - Fr	amala	
Blood - 8	Caseous Lymphadenitis (SHI)	NEG			
51000 - 8	Mycobacterium paratuberculosis : Johne's Disease (ELISA)	NEG	0.001		
			0.001	0.1	
	Small ruminant lentivirus (cELISA)	NEG		-0.1	
NDIA BLUI	E EOF JINSING - Mammalian - Caprine / goat - Goat - Nigerian D	warf - Ferr	nale		
Blood - 9	Caseous Lymphadenitis (SHI)	NEG			
	Mycobacterium paratuberculosis : Johne's Disease (ELISA)	NEG	0.005		
	Small ruminant lentivirus (cELISA)	NEG		1.4	1
	KERS ALPHA LYNCIS - Mammalian - Caprine / goat - Goat - Nig		rf - Male	1	
Blood - 10	Caseous Lymphadenitis (SHI)	NEG			
	Mycobacterium paratuberculosis : Johne's Disease (ELISA)	NEG	0.030		
	Small ruminant lentivirus (cELISA)	NEG		1.3	
	LINNY FARM MAV/IS Mammalian Conting (goot Cost Nigo	tion Dworf	Famala	•	
	UNNY FARM MAVIS - Mammalian - Caprine / goat - Goat - Nige				
Blood - 11	Caseous Lymphadenitis (SHI)	NEG	0.007		
	Mycobacterium paratuberculosis : Johne's Disease (ELISA)	NEG	0.027		
	Small ruminant lentivirus (cELISA)	NEG		2.3	
BETTER W	AYZ MILCHAMAH *B - Mammalian - Caprine / goat - Goat - Nige	rian Dwarf	- Male		
Blood - 12	Caseous Lymphadenitis (SHI)	NEG			
1000 12	Mycobacterium paratuberculosis : Johne's Disease (ELISA)	NEG	0.016		
	Small ruminant lentivirus (cELISA)	NEG	0.010	20.9	
		INEG		20.9	
BETTER W	AYZ MERCY ME - Mammalian - Caprine / goat - Goat - Nigerian	Dwarf - Fe	male		
Blood - 13	Caseous Lymphadenitis (SHI)	NEG			
	Mycobacterium paratuberculosis : Johne's Disease (ELISA)	NEG	0.004		
	Small ruminant lentivirus (cELISA)	NEG		4.8	
			` ` `		1
	RACE HILL HS 4GET ME NT - Mammalian - Caprine / goat - Go		n Dwart	- Female	•
Blood - 14	Caseous Lymphadenitis (SHI)	NEG			
	Mycobacterium paratuberculosis : Johne's Disease (ELISA)	NEG	0.005		
	Small ruminant lentivirus (cELISA)	NEG		5.8	
RETTER W	AYZ SWISS MOCHA - Mammalian - Caprine / goat - Goat - Nige	rian Dwarf	- Female		
Blood - 15	Caseous Lymphadenitis (SHI)	NEG			
51000 - 15	Mycobacterium paratuberculosis : Johne's Disease (ELISA)	NEG	0.443		
		NEG	0.443	10.0	
	Small ruminant lentivirus (cELISA)	NEG		10.6	
GOATS@G	RACE HILL PR NOIR IXORA - Mammalian - Caprine / goat - Go	at - Nigeria	n Dwarf -	Female	
Blood - 16	Caseous Lymphadenitis (SHI)	NEG			
	Mycobacterium paratuberculosis : Johne's Disease (ELISA)	NEG	0.022		
	Small ruminant lentivirus (cELISA)	NEG	0.022	12.6	
		1		12.0	
	FARM PEANUT - Mammalian - Caprine / goat - Goat - Nigerian		nale		
Blood - 17	Caseous Lymphadenitis (SHI)	NEG			
	Mycobacterium paratuberculosis : Johne's Disease (ELISA)	NEG	0.004		
	Small ruminant lentivirus (cELISA)	NEG		7.5	
		1	of Laura-	•	
	AYZ PUMPKIN SPICE - Mammalian - Caprine / goat - Goat - Nig		u - remal	e	
Blood - 18	Caseous Lymphadenitis (SHI)	NEG			
	Mycobacterium paratuberculosis : Johne's Disease (ELISA)	NEG	0.018	<u> </u>	
	Small ruminant lentivirus (cELISA)	NEG		12.1	
	PACE HILL H R2-D2 Mammalian Capring / goat Cost Niga	rian Dwarf	Malo		
	RACE HILL H R2-D2 - Mammalian - Caprine / goat - Goat - Nige				
Blood - 19	Caseous Lymphadenitis (SHI)	NEG	0.001		
	Mycobacterium paratuberculosis : Johne's Disease (ELISA)	NEG	0.004	 	
	Small ruminant lentivirus (cELISA)	NEG	1	13.2	1



Specimen	Test Name	Result	S/P	PI	S-N
GOATS@G	RACE HILL M SHAAK TI - Mammalian - Caprine / goat - Goat - I	Nigerian Dv	warf - Fen	nale	
Blood - 20	Caseous Lymphadenitis (SHI)	NEG			
	Mycobacterium paratuberculosis : Johne's Disease (ELISA)	NEG	0.002		
	Small ruminant lentivirus (cELISA)	NEG		4.5	
A LITTLE F	UNNY FARM SPIDERROLL - Mammalian - Caprine / goat - Goa	t - Nigerian	Dwarf - N	Male	
Blood - 21	Caseous Lymphadenitis (SHI)	NĔG			
	Mycobacterium paratuberculosis : Johne's Disease (ELISA)	NEG	0.028		
	Small ruminant lentivirus (cELISA)	NEG		13.8	
BETTER W	AYZ PIPSQUEAK - Mammalian - Caprine / goat - Goat - Nigeriar	Dwarf - Fo	emale		
Blood - 22	Caseous Lymphadenitis (SHI)	NEG			
	Mycobacterium paratuberculosis : Johne's Disease (ELISA)	NEG	0.000		
	Small ruminant lentivirus (cELISA)	NEG		2.1	
BETTER W	AYZ HAMMER IN THE SKY - Mammalian - Caprine / goat - Goa	t - Nigerian	Dwarf - N	/lale	
Blood - 23	Caseous Lymphadenitis (SHI)	NĔG			
	Mycobacterium paratuberculosis : Johne's Disease (ELISA)	NEG	0.338		
	Small ruminant lentivirus (cELISA)	NEG		0.6	
TOBY - Mar	nmalian - Caprine / goat - Goat - Nigerian Dwarf - Male				
Blood - 24	Caseous Lymphadenitis (SHI)	NEG			
	Mycobacterium paratuberculosis : Johne's Disease (ELISA)	NEG	0.000		
	Small ruminant lentivirus (cELISA)	NEG		10.9	
THE BREN	NAN TRIXIE - Mammalian - Caprine / goat - Goat - Nigerian Dwa	rf - Female)		
Blood - 25	Caseous Lymphadenitis (SHI)	NEG			
	Mycobacterium paratuberculosis : Johne's Disease (ELISA)	NEG	0.000		
	Small ruminant lentivirus (cELISA)	NEG		5.2	
BUFFALO (CLOVER VAL VERSACE - Mammalian - Caprine / goat - Goat - N	ligerian Dv	varf - Male	Э	
Blood - 26	Caseous Lymphadenitis (SHI)	NEG			
	Mycobacterium paratuberculosis : Johne's Disease (ELISA)	NEG	0.012		
	Small ruminant lentivirus (cELISA)	NEG		6.7	
GOATS@G	RACE HILL HS ZINNIA - Mammalian - Caprine / goat - Goat - Ni	gerian Dwa	arf - Fema	ale	
Blood - 27	Caseous Lymphadenitis (SHI)	NEG			
	Mycobacterium paratuberculosis : Johne's Disease (ELISA)	NEG	0.002	1	
	Small ruminant lentivirus (cELISA)	NEG		4.8	1
Bovine n	regnancy test(IDEXX The pregnancy status of the animal		minod b	v mooo	uring

Bovine pregnancy test(IDEXX
ELISA):The pregnancy status of the animal was determined by measuring the levels of
Pregnancy Associated Glycoproteins (PAGs) in the submitted blood sample. The level of
PAGs is measured by corrected optical density (OD) value (also called S-N) using IDEXX
Bovine Pregnancy ELISA test.

S-N = Sample OD minus negative control mean OD

- a. If the S-N value is less than 0.300, the animal is considered not pregnant (open).
- b. If the S-N value is equal to or greater than 0.300, the animal is considered pregnant.

Pregnant Recheck (validated in cattle only): Embryonic deaths are common in the early 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 The Small Ruminant Lentivirus (SRLV) Antibody Test Kit, cELISA is a competitive, enzyme-linked, Small ruminant lentivirus(cELISA): 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 paratuberculosis : Johne's ELISA test for Johne's disease measures antibody response in milk and serum. To control or Disease(ELISA): 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 Interpretation Milk Negative S/P = 0.20; Suspect < 0.20 - 0.30; Positive =0.30 Caseous Detection of antibodies to Corynebacterium pseudotuberculosis exotoxin, the Lymphadenitis(SHI): 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.

Interpretation

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



Interpretation

considered when assessing Johne's ELISA positive lab results.

Client Report History

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