



Pennsylvania Animal Diagnostic Laboratory System
PADLS - PVL
Pennsylvania Veterinary Laboratory
2305 NORTH CAMERON STREET
HARRISBURG PA 17110
Phone: (717) 787-8808

Visit us online at <http://padls.agriculture.pa.gov/>

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Final Report

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Case Coordinator: Nagaraja Thirumalapura

Accession No: S2514640

RICKEE ANN MILLER
918 MOUNTAIN VIEW ROAD
SHERMANS DALE PA 17090

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Associated Parties

Owner	DEB EWING	
Veterinarian	MAKAYLA EVANS	Vet Code:094563, BV016028
Owner	RICKEE ANN MILLER	
Vet Practice	TRI COUNTY VETERINARY SERVICES	

Reference Data

Sample: SERUM (4)

Sample: WHOLE BLOOD (4)

Lab Findings

Mammalian Virology

Specimen	Test Name	Result
HHF DONELLA - Mammalian - Bovine / cattle - Cattle (Domestic) - Scottish Highlander - 6 Months		
Serum - 2	Bovine viral diarrhea virus (BVD) serum (AgELISA)	NEG
HHF DAVINA - Mammalian - Bovine / cattle - Cattle (Domestic) - Scottish Highlander - 6 Months		
Serum - 3	Bovine viral diarrhea virus (BVD) serum (AgELISA)	NEG
HHF DAHLIA - Mammalian - Bovine / cattle - Cattle (Domestic) - Scottish Highlander - 6 Months		
Serum - 4	Bovine viral diarrhea virus (BVD) serum (AgELISA)	NEG

Bovine viral diarrhea virus (BVD)
serum(AgELISA):

BVD PI X2 antigen ELISA: Sample to Positive control ratio calculation (S/P) is used to determine the BVD infection status.

S/P ratio $\leq$ 0.150 for serum or small ear notch : NEGATIVE for BVD.

S/P ratio of $>$ 0.150 for serum or small ear notch: POSITIVE for BVD.

S/P ratio of $\leq$ 0.300 for large ear notch: NEGATIVE for BVD.

S/P ratio of $>$ 0.300 for large ear notch: POSITIVE for BVD.

An animal testing positive for BVD must be retested after 3 weeks to determine if the animal is truly a persistently infected (PI) animal. PI animals retest positive. Transient infections on the other hand can be ruled out with retesting in 3 weeks with a negative test outcome.

Molecular Biology

Specimen	Test Name	Anaplasma marginal	Theileria orientalis
HHF DAZZLE - Mammalian - Bovine / cattle - Cattle (Domestic) - 11 Months			
Whole blood/EDTA - 1	Anaplasma marginale / Theileria orientalis PCR (PCR)	Negative	Negative
HHF DONELLA - Mammalian - Bovine / cattle - Cattle (Domestic) - Scottish Highlander - 6 Months			
Whole blood/EDTA - 2	Anaplasma marginale / Theileria orientalis PCR (PCR)	Negative	Negative
HHF DAVINA - Mammalian - Bovine / cattle - Cattle (Domestic) - Scottish Highlander - 6 Months			
Whole blood/EDTA - 3	Anaplasma marginale / Theileria orientalis PCR (PCR)	Negative	Negative
HHF DAHLIA - Mammalian - Bovine / cattle - Cattle (Domestic) - Scottish Highlander - 6 Months			
Whole blood/EDTA - 4	Anaplasma marginale / Theileria orientalis PCR (PCR)	Negative	Positive 27.07
	Positive for Theileria orientalis genotype Ikeda (Ct value = 31.20)		





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Anaplasma marginale / Theileria
orientalis PCR(PCR):

This test is currently under validation. The test has demonstrated good analytical sensitivity and specificity. Test results must be interpreted in the context of clinical findings, history of exposure to ticks and any other relevant information.

Mammalian Serology

Specimen	Test Name	Result	S-N
HHF DAZZLE - Mammalian - Bovine / cattle - Cattle (Domestic) - 11 Months			
Serum - 1	Bovine pregnancy test (IDEXX ELISA)	Open	0.006

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

- If the S-N value is less than 0.300, the animal is considered not pregnant (open).
- 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

Client Report History

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