



Pennsylvania Animal Diagnostic Laboratory System
PADLS - PVL
Pennsylvania Veterinary Laboratory
2305 N CAMERON ST
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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: Nancy Lill

Accession No: S2540895

RICKEE ANN MILLER
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SHERMANS DALE PA 17090

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Associated Parties

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

Reference Data

Sample: 3 Blood, 3 EDTA

Lab Findings

Mammalian Virology

Specimen	Test Name	Result	S/P
HHF ERNIE - Mammalian - Bovine / cattle - Cattle (Domestic) - Male - 6 Months			
Blood - 1	Bovine viral diarrhea virus (BVD) serum (AgELISA)	NEG	0
HHF EMBER - Mammalian - Bovine / cattle - Cattle (Domestic) - Female - 6 Months			
Blood - 2	Bovine viral diarrhea virus (BVD) serum (AgELISA)	NEG	0
HHF ELEGANCE - Mammalian - Bovine / cattle - Cattle (Domestic) - Female - 6 Months			
Blood - 3	Bovine viral diarrhea virus (BVD) serum (AgELISA)	NEG	0

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 ERNIE - Mammalian - Bovine / cattle - Cattle (Domestic) - Male - 6 Months			
Whole blood/EDTA - 1	Anaplasma marginale / Theileria orientalis PCR (PCR)	Negative 0.0	Negative 0.0
HHF EMBER - Mammalian - Bovine / cattle - Cattle (Domestic) - Female - 6 Months			
Whole blood/EDTA - 2	Anaplasma marginale / Theileria orientalis PCR (PCR)	Negative 0.0	Negative 0.0
HHF ELEGANCE - Mammalian - Bovine / cattle - Cattle (Domestic) - Female - 6 Months			
Whole blood/EDTA - 3	Anaplasma marginale / Theileria orientalis PCR (PCR)	Negative 0.0	Negative 0.0

Anaplasma marginale / Theileria
orientalis PCR(PCR):

The PCR test is a duplex Real-time PCR assay targeting both *Theileria orientalis* and *Anaplasma marginale*. The test was demonstrated to have 100% sensitivity





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and specificity for *T. orientalis*; and 97% sensitivity and 100% specificity for *A. marginale*. Positive specimens are further tested to determine if they belong to three known *T. orientalis* genotypes: Ikeda, Chitose, and Buffeli.

Mammalian Serology

Specimen	Test Name	Result
HHF ERNIE - Mammalian - Bovine / cattle - Cattle (Domestic) - Male - 6 Months		
Blood - 1	Bovine Leukemia (BLV, bovine leukosis) (ELISA)	NEG
HHF EMBER - Mammalian - Bovine / cattle - Cattle (Domestic) - Female - 6 Months		
Blood - 2	Bovine Leukemia (BLV, bovine leukosis) (ELISA)	NEG
HHF ELEGANCE - Mammalian - Bovine / cattle - Cattle (Domestic) - Female - 6 Months		
Blood - 3	Bovine Leukemia (BLV, bovine leukosis) (ELISA)	NEG

Bovine Leukemia (BLV, bovine leukosis)(ELISA):

Bovine leukemia virus testing is performed with the BLV antibody ELISA kit from VMRD, INC. The sample O.D. value, relative to positive and negative control O.D.s, is interpreted as positive (Positive), negative (NEG) or equivocal. Equivocal indicates that a clear Positive or NEG test result could not be obtained for the tested sample. The test has reported specificity of 100% and sensitivity of 98%. Even at this high specificity, BLV prevalence in the herd and clinical signs should be taken into consideration when interpreting Positive antibody results. When BLV prevalence is low and valuable animals are tested or when BLV status is the single criterion for disposition of the animal, a Positive ELISA can be supplemented with a different testing method. The VMRD ELISA is generally recommended for testing adult cattle >6-8 months of age, to avoid test interference by maternal antibodies.

Client Report History

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