

National Veterinary Services Laboratories  
NAHLN Document List

Document Number	Document Revision	Document Title
FM-AV-0038	2	RRT-PCR Primer and Probe Quality Control Worksheet
FM-BPA-0005	2	24 Well Plate Virus Isolation Worksheet
FM-BPA-0017	2	Vesicular Stomatitis Complement Fixation Bench Record
FM-BPA-0018	1	Complement Titration Worksheet
FM-BPA-0019	1	Hemolysin Titration Worksheet
FM-BPA-0020	1	Virus Isolation Worksheet
FM-BPA-0032	1	Washing & Standardization of Sheep Red Blood Cells
FM-BPA-0070	2	MagMAX AM1836 Extraction Worksheet for Aquaculture
FM-BPA-0091	1	ISAV RT-PCR
FM-BPA-0092	1	KingFisher AMB1836 Extraction Worksheet for Aquaculture
FM-BPA-0093	1	ISAV VetMAX plus - Multiplex One Step RT-PCR
FM-BPA-0094	2	VHSV rRT-PCR Worksheet
FM-BPA-0095	1	Vesicular Stomatitis PCR Worksheet Using Fast Virus 1-Step Kit
FM-BPA-0097	1	MagMAX Express 96 Extraction Worksheet (200µl sample)
FM-DS-0238	1	FMD 3ABC ELISA- VMRD Kit
FM-DS-0244	2	African Swine Fever rPCR Assay on the Applied Biosystems 7500 Real-time PCR System Worksheet
FM-DS-0245	2	Nucleic Acid Extraction Using the MagMAX™ Pathogen RNA/ DNA Kit on a Magnetic Particle Processor Worksheet
FM-DS-0258	3	Classical Swine Fever and Foot and Mouth Disease Multiplex rRT-PCR Using the TaqMan® Fast Virus 1-Step Master Mix on the Applied Biosystems 7500 Real-time PCR Platform Worksheet
FM-FADDL-0038	2	Recovery of Sample from a Swab Worksheet
FM-FADDL-0039	2	Recovery of Sample from Tissue Worksheet
FM-FADDL-0041	1	Extraction of Total DNA from Tissues, Tissue Culture Supernatant, and Whole Blood Using a Qiagen DNeasy® Blood and Tissue Mini Kit Worksheet
FM-FADDL-0050	2	FMD PCR Control QC Summary Sheet
FM-FADDL-0051	2	CSF PCR Control QC Summary Sheet
FM-FADDL-0052	2	ASF PCR Control QC Summary Sheet

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Document Number	Document Revision	Document Title
FM-PS-0002	3	Information on "Initial Reactives" for TSE ELISA
Policy-NAHLN-0006	1	NAHLN Laboratory Performance
REF-AV-0011	2	Network Testing Algorithm for Avian Influenza
REF-DVL-0009	1	Influenza A Test Reference
SOP-AV-0068	3	Real-time RT-PCR Detection of Influenza A Virus and Avian Paramyxovirus Type-1
SOP-BPA-0010	1	Complement Fixation Test for Detection of Antibodies to Vesicular Stomatitis Virus
SOP-BPA-0011	1	Reagent Preparation and Evaluation for the Vesicular Stomatitis Complement Fixation Assay
SOP-BPA-0014	4	Isolation of Viral Agents from Finfish in Tissue Cell Culture
SOP-BPA-0018	2	Real-Time RT-PCR for the Detection of Influenza A Virus in Swine (IAV-S) in Clinical Samples
SOP-BPA-0019	2	Amplification and Purification of PCR Products for Direct Sequencing of Hemagglutinin, Neuraminidase, and Matrix Genes of Swine Influenza Virus
SOP-BPA-0023	1	Swine Influenza Virus Isolation
SOP-BPA-0044	3	Real-Time RT-PCR for Subtyping Type A Swine Influenza Virus in Clinical Samples
SOP-BPA-0052	1	Dissection of Fish for Detection of Viruses During Large-Scale, Targeted Surveillance for ISAV
SOP-BPA-0053	2	Disruption of Fish Tissue by Micro-Bead Beating
SOP-BPA-0054	3	Extraction of Nucleic Acid (DNA and RNA) from Fish Tissues - AM1836
SOP-BPA-0055	2	Infectious Salmon Anemia Real-time RT-PCR - segment 8 Snow primers
SOP-BPA-0056	2	Infectious Salmon Anemia RT-PCR - Segment 6 and 8
SOP-BPA-0060	1	Viral Hemorrhagic Septicemia Virus Real-time RT-PCR
SOP-BPA-0063	2	Real-time Reverse-Transcriptase Polymerase Chain Reaction for the Detection of Vesicular Stomatitis Nucleic Acids Using the ABI 7500 Detection System
SOP-DS-0071	2	Preparation, Performance, and Interpretation of the African Swine Fever rPCR Assay on the Applied Biosystems 7500 Real-time PCR System

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SOP-DS-0074	2	Nucleic Acid Extraction using the MagMAX Pathogen RNA/DNA kit on a Magnetic Particle Processor
SOP-DS-0080	4	Classical Swine Fever and Foot and Mouth Disease rRT-PCR Using the TaqMan® Fast Virus 1-Step Master Mix on the Applied Biosystems 7500 Real-time PCR Platform
SOP-FADDL-0014	1	Preparation of Tissues, Tissue Homogenates, and Swabs for Nucleic Acid Extraction
SOP-FADDL-0016	2	Extraction of Total DNA from Tissues, Tissue Culture Supernatant, and Whole Blood Using a Qiagen DNeasy® Blood and Tissue Mini Kit
SOP-NAHLN-0005	1	Training Process for Train the Trainer
SOP-PS-0002	2	Detection of Scrapie and Chronic Wasting Disease by Immunohistochemistry
SOP-PS-0007	1	Chronic Wasting Disease (CWD) Enzyme-Linked Immunosorbent Assay (ELISA)
SOP-PS-0010	1	Redirection of Bovine Spongiform Encephalopathy Samples
SOP-PS-0048	1	Quality Assurance: Proficiency Testing and Quality Monitoring of BSE ELISA Contract Laboratories by NVSL
SOP-PS-0051	1	Protocol for Bovine Spongiform Encephalopathy (BSE) Approved National Animal Health Laboratory Network (NAHLN) Laboratories to Receive and Test Bovine Brain Samples and Report Results for BSE Surveillance
SOP-RVS-0028	2	Production and Use of a Reference Panel for Quality Control of Primers and Probes for PCR
WI-AV-0020	9	Avian Sample Collection for Influenza A and Newcastle Disease
WI-AV-0035	4	Programming and Analysis for the Cepheid SmartCycler Real-Time Instrument
WI-AV-0036	3	Programming and Analysis for the Roche LightCycler® 480 Real-Time Instrument
WI-AV-0037	2	Programming and Analysis for the Applied Biosystems 7900 Real-Time Instrument
WI-AV-0038	2	Quick Reference for Real-Time RT-PCR Avian Paramyxovirus Type-1 Detection (for AB7500 Fast and Cepheid SmartCycler)

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WI-AV-0039	3	Quick Reference for Real-Time RT-PCR Influenza A Detection using the IAV M 2009 Assay (for AB7500 Fast and Cepheid SmartCycler II)
WI-AV-0045	2	NVSL Testing Guidance for Post C&D Environmental Samples
WI-AV-0050	1	Quick Reference for Real-Time RT-PCR Influenza A Assays for Subtype H5 or H7 Detection (for AB7500 Fast and Cepheid Smart Cycler)
WI-AV-0051	2	Evaluation and Quality Control Testing of Real-Time RT-PCR Primers and Probes
WI-AV-0052	1	RNA Extraction Using a Magnetic Particle Processor
WI-BPA-0032	1	Minimum Requirements for Submitting NAHLN Swine Influenza Virus Sequencing to GenBank
WI-BPA-0048	1	RNA Extraction of Vesicular Stomatitis Using MagMAX Bead Kits
WI-NAHLN-0011	3	NAHLN Laboratory Controlled Copy SOP Responsibilities
WI-NAHLN-0038	1	NAHLN Sample Chart
WI-RVS-0003	1	Work Instructions for Use of a Reference Panel for QAQC Testing Primers and Probes for Real-time PCR Applications

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SOP-AV-0014	5	Intravenous Pathogenicity Test for Avian Influenza Virus in Chickens
SOP-AV-0066	1	Agar Gel Immunodiffusion Test to Detect Antibodies to Avian Encephalomyelitis Virus
SOP-AV-0068	3	Real-time RT-PCR Detection of Influenza A Virus and Avian Paramyxovirus Type-1
SOP-BI-0002	3	Quality Control Testing of Taylorella spp. Media
SOP-BI-0008	3	Pulsed Field Gel Electrophoresis (PFGE) on Taylorella isolates
SOP-BI-0015	2	Salmonella pullorum Microagglutination Test
SOP-BI-0017	2	Salmonella pullorum Tube Agglutination Test
SOP-BI-0106	5	Taylorella spp. Isolation and Identification
SOP-BI-0107	3	Taylorella spp. Direct Fluorescent Antibody Test
SOP-BI-0109	3	Real-time Polymerase Chain Reaction Test for Rapid Identification and Speciation of Taylorella spp.
SOP-BMRT-0002	3	Brucella abortus Buffered Acidified Plate Antigen (NVSL Reagent Code 2)
SOP-BMRT-0003	4	Brucella abortus Standard Tube/Complement Fixation Antigen (NVSL Reagent Code 3 and 3-CDC)
SOP-BMRT-0005	3	Brucella Ring Test (BRT) antigen (NVSL Reagent Code 5)
SOP-BMRT-0008	2	Brucella abortus Buffered Brucella Antigen (BBA), Card Antigen, Rose Bengal Antigen, and Rapid Automated Presumptive (RAP) Test Antigen (NVSL Reagent Code 10-S, 10-L)
SOP-BMRT-0009	3	Brucellosis Proficiency Test
SOP-BMRT-0011	1	Preparation of Buffered Brucella Antigen (BBA), Card Antigen, Rose Bengal Antigen, and Rapid Automated Presumptive (RAP) Antigen Diluent
SOP-BMRT-0013	2	Processing Brucella spp. Cells Harvested From Fermentor (s)
SOP-BMRT-0018	2	Production of Brucella Working Seed and Starter Cultures
SOP-BMRT-0022	3	Production of Brucella abortus RAP Control Sera (612-RP, 612-RP2, 612-RN, & 612-RN2)
SOP-BMRT-0023	2	Preparation of Brucella abortus Buffered Acidified Plate Antigen (BAPA) Buffer
SOP-BMRT-0024	3	Brucella abortus Rivanol Solution (NVSL Reagent Code 7)
SOP-BMRT-0025	3	Creating Production Records and Completing Form 2008
SOP-BMRT-0027	1	Determining Purity and Morphology of Brucella spp.

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SOP-BMRT-0028	3	Point System for Evaluation of Brucella Agglutination Antigens (Standard Plate, Rivanol, and Tube)
SOP-BMRT-0032	1	Anaplasmosis cELISA Proficiency Test – Reagent code ANP-CHK
SOP-BPA-0021	1	Virus Isolation Procedure for Pseudorabies Virus (PRV)
SOP-BPA-0035	3	Virus Neutralization Test for Detection of Antibodies Against Pseudorabies Virus
SOP-BPA-0039	2	Serology Testing for Pseudorabies in the Diagnostic Virology Laboratory
SOP-BPA-0052	1	Dissection of Fish for Detection of Viruses During Large-Scale, Targeted Surveillance for ISAV
SOP-BPA-0053	2	Disruption of Fish Tissue by Micro-Bead Beating
SOP-BPA-0054	3	Extraction of Nucleic Acid (DNA and RNA) from Fish Tissues - AM1836
SOP-BPA-0055	2	Infectious Salmon Anemia Real-time RT-PCR - segment 8 Snow primers
SOP-BPA-0056	2	Infectious Salmon Anemia RT-PCR - Segment 6 and 8
SOP-BPA-0060	1	Viral Hemorrhagic Septicemia Virus Real-time RT-PCR
SOP-DS-0022	1	Plan for Classical Swine Fever Antibody ELISA Intralaboratory Proficiency Panel Production and Use
SOP-DS-0071	2	Preparation, Performance, and Interpretation of the African Swine Fever rPCR Assay on the Applied Biosystems 7500 Real-time PCR System
SOP-DS-0074	2	Nucleic Acid Extraction using the MagMAX Pathogen RNA/DNA kit on a Magnetic Particle Processor
SOP-DS-0080	4	Classical Swine Fever and Foot and Mouth Disease rRT-PCR Using the TaqMan® Fast Virus 1-Step Master Mix on the Applied Biosystems 7500 Real-time PCR Platform
SOP-DVL-0017	3	Working with Highly Pathogenic Avian Influenza and Virulent Newcastle Disease Viruses in the Diagnostic Virology Laboratory (DVL)
SOP-EO-0004	3	Polymerase Chain Reaction Test for Bluetongue Virus and Epizootic Hemorrhagic Disease Virus
SOP-EO-0005	3	Serotype Identification of Orbiviruses (BTV, EHDV, and AHSV) by RT-PCR
SOP-EO-0008	3	Isolation of Bluetongue Virus
SOP-EO-0010	2	Equine Arteritis Virus Isolation
SOP-EO-0013	2	General Protocol for Isolation of Equine Viruses
SOP-EO-0017	3	Agar Gel Immunodiffusion Test for Bluetongue
SOP-EO-0030	2	Microtiter Virus Neutralization Test for Equine Viral Arteritis

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SOP-EO-0032	3	Western blot Test for Equine Infectious Anemia
SOP-EO-0034	2	Requirements for Equine Infectious Anemia Agar Gel Immunodiffusion (Coggins) and Enzyme-Linked Immunosorbent Assay Testing at Veterinary Services Approved Laboratories
SOP-EO-0036	2	Virus Neutralization Test for Bluetongue and Epizootic Hemorrhagic Disease Viruses
SOP-EO-0041	3	Real-time RT-PCR Assays for Detection of Bluetongue, Epizootic Hemorrhagic Disease and African Horse Sickness Viruses
SOP-EO-0043	1	Procedure for Performing Miscellaneous Gel-based PCR Assays: EAV; Bunyavirus; and EHV-2, -3, & -5.
SOP-FADDL-0016	2	Extraction of Total DNA from Tissues, Tissue Culture Supernatant, and Whole Blood Using a Qiagen DNeasy® Blood and Tissue Mini Kit
SOP-FADDL-0028	2	Preparation, Performance and Interpretation of the Multiplex Assay used for the Detection of Foot-and-Mouth Disease Virus in Milk on the Applied Biosystems 7500 Real-Time PCR System
SOP-FADDL-0041	1	Nucleic Acid Sequencing of the Foot and Mouth Disease S Fragment
SOP-FADDL-0042	1	Nucleic Acid Sequencing of the Foot and Mouth Disease L Fragment
SOP-FADDL-0043	1	Nucleic Acid Sequencing of the Foot and Mouth Disease P1 Region
SOP-FADDL-0044	1	Nucleic Acid Sequencing of the Foot and Mouth Disease 3' Region
SOP-MB-0008	1	Testing Requirements for Culture Media; Brucella spp. Isolation
SOP-MB-0009	2	Isolation: Brucella spp.
SOP-MB-0011	2	Evaluation of Individual Lots of Brucella Ring Test Antigen
SOP-MB-0013	2	Procedure for the Propagation of Brucellaphages
SOP-MB-0017	2	AMOS PCR
SOP-MB-0019	2	Characterization of Brucella species
SOP-MB-0020	2	Gram Stain Procedure
SOP-MB-0030	2	Bead Beater™ DNA extraction method for Mycobacterial DNA
SOP-MB-0031	3	16s rDNA, rpoB, hsp65 and ITS Diagnostic Sequencing for Mycobacterium species
SOP-MB-0039	4	VersaTrek® Liquid Culture of Mycobacterium species
SOP-MB-0041	3	HPC Decontamination of Tissues Submitted for Mycobacteria culture



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SOP-MB-0042	3	HPC Decontamination of Fecal Swabs and Feces Submitted for Mycobacteria Culture
SOP-MB-0044	2	Procedures for Brucella Milk Ring Tests
SOP-MB-0045	4	NaOH Decontamination Method for Mycobacterial Culture
SOP-MB-0046	1	Direct PCR Assay of Feces for Detection of Mycobacterium avium subsp. paratuberculosis Using Bead Based Sample Disruption MagMax™ Total Nucleic Acid Isolation Method
SOP-MB-0050	3	Procedures for Inactivation of Brucella Cells
SOP-MB-0057	2	Isolation of Mycobacteria Using Solid Media
SOP-MB-0059	3	MGIT™ 960 Liquid Culture of Mycobacteria species
SOP-PS-0002	2	Detection of Scrapie and Chronic Wasting Disease by Immunohistochemistry
SOP-PS-0006	1	Scrapie Enzyme-Linked Immunosorbent Assay (ELISA)
SOP-PS-0051	1	Protocol for Bovine Spongiform Encephalopathy (BSE) Approved National Animal Health Laboratory Network (NAHLN) Laboratories to Receive and Test Bovine Brain Samples and Report Results for BSE Surveillance
SOP-PS-0054	1	Detection of Mycobacterial Nucleic Acid in Formalin-Fixed Paraffin-Embedded Tissues by Polymerase Chain Reaction
SOP-RVS-0031	2	STANDARD OPERATING PROCEDURE FOR FOOT-AND MOUTH DISEASE (FMD) rRT-PCR PROFICIENCY PANEL ASSEMBLY AND DISTRIBUTION
SOP-RVS-0038	2	STANDARD OPERATING PROCEDURE FOR CLASSICAL SWINE FEVER (CSF) rRT-PCR PROFICIENCY PANEL ASSEMBLY AND DISTRIBUTION
SOP-RVS-0063	1	Workflow for Receipt, Process and Transfer of DNA Materials for NaOH Safety Treatment using Safety Treatment Database
SOP-SERO-0003	3	Complement Fixation Test for Detection of Antibodies to Babesia caballi and Theileria (Babesia) equi—Microtitration Test
SOP-SERO-0004	5	Indirect Fluorescent Antibody Test for Detection of Antibodies to Babesia caballi and Theileria (Babesia) equi
SOP-SERO-0005	3	Competitive ELISA for Serodiagnosis of Equine Piroplasmiasis [Theileria (Babesia) equi and Babesia caballi]



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SOP-SERO-0010	2	Complement Fixation Test for Detection of Antibodies to <i>Anaplasma marginale</i> —Microtitration Test
SOP-SERO-0012	2	Johne's Complement Fixation Test
SOP-SERO-0015	2	Complement Fixation Test for Detection of Antibodies to <i>Brucella abortus</i> and <i>Brucella suis</i>
SOP-SERO-0016	4	Plate Agglutination Test for Detection of Antibodies to <i>Brucella abortus/suis</i>
SOP-SERO-0017	3	Buffered Acidified Plate Antigen Test For Detection of Antibodies to <i>Brucella abortus/suis</i>
SOP-SERO-0018	4	Rivanol Precipitation—Plate Agglutination Test For Detection of Antibodies to <i>Brucella abortus/suis</i>
SOP-SERO-0019	3	Tube Agglutination Test for Detection of Antibodies to <i>Brucella abortus/suis</i>
SOP-SERO-0020	3	Card Test for Detection of Antibodies to <i>Brucella abortus/suis</i>
SOP-SERO-0021	3	Rapid Automated Presumptive Test For Detection of Antibodies to <i>Brucella abortus/suis</i>
SOP-SERO-0022	3	Contagious Equine Metritis Complement Fixation Tube Test
SOP-SERO-0023	3	Svanovir <i>Brucella</i> cELISA
SOP-SERO-0024	5	Tube Agglutination Test for Detection of Antibodies to <i>Brucella canis</i>
SOP-SERO-0025	2	<i>Brucella canis</i> Indirect ELISA
SOP-SERO-0026	3	<i>Brucella ovis</i> Complement Fixation Test for Sheep
SOP-SERO-0027	3	Card Test for Detection of Antibodies to <i>Brucella melitensis</i>
SOP-SERO-0029	4	<i>Anaplasma</i> Antibody Test Kit, cELISA v2
SOP-SERO-0030	5	<i>Brucella</i> Fluorescence Polarization Assay (FPA) In Microwells
SOP-SERO-0031	7	<i>Brucella</i> Fluorescence Polarization Assay (FPA) Using Tubes
SOP-SERO-0032	3	VMRD cELISA Kits for <i>Babesia caballi</i> and <i>Babesia equi</i>
SOP-SERO-0033	3	Prionics PARACHEK Johne's ELISA Kit
SOP-SERO-0035	4	<i>Brucella ovis</i> Indirect ELISA
SOP-SERO-0038	5	IDEXX Johne's Disease ELISA Kit
SOP-SERO-0039	3	Contagious Equine Metritis Complement Fixation Plate Test
SOP-SERO-0040	2	<i>Babesia caballi</i> Western Blot
SOP-SERO-0041	3	IDEXX ELISA Antibody Test Kits for <i>Mycobacterium bovis</i>
SOP-SERO-0045	3	Johne's Disease AGID Test
SOP-SERO-0046	1	Nested PCR for <i>Babesia caballi</i> , <i>Babesia equi</i> , or <i>Anaplasma marginale</i>
SOP-SERO-0051	2	<i>Mycobacterium bovis</i> Gamma Interferon Test Kit for Cattle (Bovigam ROW Kit)