Schedule of Accreditation

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The Pirbright Institute

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Testing performed at the above address only

DETAIL OF ACCREDITATION

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
ANIMAL TISSUES,FLUIDS and ENVIRONMENTAL	Molecular Biology Tests	
Chicken Organs, Feathers, House Dust	Identification of Marek's Disease Virus (vMDV, CVI988, MDV-2 and HVT)	Documented in-house operating procedures AOV-SOP-1 and AOV-SOP-3 Qiagen DNeasy blood and tissue kit manual extraction using 96- well and single column format. AOV-SOP-2 Real-time PCR using the ABI 7500 FAST thermal cycler
Tissue Epithelium, Oesophageal Washings (Probang), Serum, EDTA Whole Blood and Milk	Identification of Foot-and-Mouth Disease Virus (FMDV) and related vesicular viruses	Documented in-house standard operating procedure WRL-SOP-26 supported by RNA extraction WRL-SOP-35 using MagMAX Express 96/KingFisher Flex Extraction System, WRL-SOP-36 Operation of the ABI 7500 FAST real-time thermocycler
Faeces, Tissue Epithelium, Oesophageal Washings (Probang), Serum, EDTA Whole Blood and Milk	Identification of Swine Vesicular Disease Virus (SVDV)	Documented in-house operating procedure WRL-SOP-26, supported by RNA extraction WRL-SOP-35 using MagMAX Express 96 / KingFisher Flex Extraction System, WRL-SOP-36 Operation of the ABI 7500 FAST real-time thermocycler
	Serology Tests	Documented in-house standard operating procedures:
Blood, serum, unspecified (cloven-hoofed animals)	Detection of Antibodies to structural and non-structural proteins of Foot-and-Mouth Disease (FMDV)	Methods developed and validated following the Flexible Scope Procedure SAU-METH-26 by manual ELISA processing using commercial test kits

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
ANIMAL TISSUES and FLUIDS	Serology Tests (cont'd) Detection of antibodies to:	Documented in-house standard operating procedures:
Blood and Serum, unspecified	Vesicular and related viruses	SAU-SOP-4 Virus neutralisation test
	Structural proteins of Foot-and-Mouth Disease (FMDV)	1) SAU-SOP-5 Liquid Phase Blocking ELISA 2) SAU-SOP-12 PrioCHECK® FMDV type O kits 3) SAU-SOP-11 Solid Phase Competition ELISA 4) SAU-SOP-49 PrioCHECK® FMDV type A and Asia 1 kits
	Non-structural protein of Foot and Mouth Disease Virus (FMDV)	1) SAU-SOP-10 (PrioCHECK® FMDV-NS) kits 2) SAU-SOP-51 ID Screen® FMD NSP C-ELISA
Blood and Serum, unspecified	Swine Vesicular Disease Virus (SVDV)	SAU-SOP-21 5B7 Monoclonal Antibody Competition ELISA
Serum	Detection of antibodies to species susceptible to non-vesicular viruses	Methods developed and validated following Flexible Scope procedure NVR-METH-63 by manual ELISA processing using commercial test kits
Serum, Plasma: Bovine, Ovine, Caprine	Capripox viruses (CaPV)	NVR-SOP-53 using Capripox IDVET Double Antigen ELISA
Serum: Ruminants	Blue Tongue Virus (BTV)	NVR-SOP-52 using IDVET C-ELISA
Serum: Equine	African Horse Sickness Virus (AHSV)	NVR-SOP-4 using INGEZIM Compac Plus ELISA
Serum: Porcine	African Swine Fever Virus (ASFV)	NVR-SOP-28 using INGEZIM PPA Compac ELISA

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
ANIMAL TISSUES and FLUIDS (cont'd)	Serology Tests (cont'd)	Documented in-house standard operating procedures:
Serum: Bovine and Cervid	Epizootic Haemorrhagic Disease Virus (EHDV)	NVR-SOP-57 using ID Screen® EHDV ID Vet C-ELISA
Serum and Plasma: Ovine, Caprine	Pestes des Petits Ruminants Virus (PPRV)	NVR-SOP-3 using IDVET C-ELISA
	Virology Tests	Documented in-house standard operating procedures:
Tissue, unspecified	Detection and identification of Foot and Mouth Disease Virus (FMDV) & Swine Vesicular Disease Virus (SVDV)	1) WRL-SOP-2 Virus Isolation 2) WRL-SOP-6 ELISA (FMDV and SVDV antigen detection) 3) WRL-SOP-33 Svanova 1F10 lateral flow device (FMDV antigen detection) 4) WRL-SOP-39 Pirbright/IZSLER monoclonal antibody ELISA for the detection of FMDV antigen
Porcine Blood, Spleen and Lymph Nodes – sampled for outbreak confirmation	Detection of African Swine Fever Virus (ASFV) antigen	NVR-SOP-2 using INGEZIM PPA DAS ELISA
Animal Blood (EDTA)	Detection of Blue Tongue Virus (BTV) African Horse Sickness Virus (AHSV) and Epizootic Haemorrhagic Disease Virus (EHDV)	NVR-SOP-11 Virus isolation
ANIMAL TISSUES, BLOOD (EDTA) and CELL CULTURE SUPERNATANTS	Molecular Biology Tests	
Animal tissues and fluids including blood, serum, swabs	Detection of specific nucleic acid from species susceptible to non-vesicular viruses	Methods developed and validated following Flexible Scope procedure NVR-METH-64 using real-time PCR and robotic extraction

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
ANIMAL TISSUES, BLOOD (EDTA) and CELL CULTURE SUPERNATANTS (cont'd)	Molecular Biology Tests (cont'd) Detection of specific nucleic acids for:	Documented in-house standard operating procedures (cont'd):
Animal Blood, Tissues and Cell Culture Supernatants	Blue Tongue Virus (BTV)	NVR-SOP-19 by one-step real-time RT-PCR supported by NVR-SOP-35 using AB 7500 Fast thermal cycler (plus robotic nucleic acid extraction NVR-SOP-32)
Animal Blood, Tissues and Cell Culture Supernatants	Blue Tongue Virus (BTV)	NVR-SOP-55 by one-step real-time RT-PCR (Maan *et al*, 2015) supported by NVR-SOP-35 using AB 7500 Fast thermal cycler (plus robotic nucleic acid extraction NVR-SOP-32)
Animal Blood, Tissues and Cell Culture Supernatants	African Horse Sickness Virus (AHSV)	NVR-SOP-19 by one-step real-time RT-PCR supported by NVR-SOP-35 using AB 7500 Fast thermal cycler (plus robotic nucleic acid extraction NVR-SOP-32)
Animal Blood,Tissues and Cell Culture Supernatants	African Horse Sickness Virus (AHSV)	NVR-SOP-54 by one-step real-time RT-PCR (Guthrie *et al*, 2013) supported by NVR-SOP-35 using AB 7500 Fast thermal cycler (plus robotic nucleic acid extraction NVR-SOP-32)
Animal Blood, Tissues and Cell Culture Supernatants	Epizootic Haemorrhagic Disease Virus (EHDV)	NVR-SOP-19 by one step real-time RT PCR supported by NVR-SOP-35 using AB 7500 Fast thermal cycler (plus robotic nucleic acid extraction NVR-SOP-32)
Animal Blood, Serum, Tissues and Cell Culture Supernatants and Swabs	Pestes de Petits Ruminants Virus (PPRV)	NVR-SOP-19 by one-step real-time RT-PCR supported by NVR-SOP-35 using AB 7500 Fast thermal cycler (plus robotic nucleic acid extraction NVR-SOP-32)

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
ANIMAL TISSUES, BLOOD (EDTA) and CELL CULTURE SUPERNATANTS (cont'd)	Molecular Biology Tests (cont'd) Detection of specific nucleic acids for: (cont'd)	Documented in-house standard operating procedures (cont'd):
Animal Blood, Serum, Tissues and Cell Culture Supernatants and Swabs	Pestes de Petits Ruminants Virus (PPRV)	NVR-SOP-56 by one step real-time RT-PCR (Flannery *et al* 2019) supported by NVR-SOP-35 using AB 7500 Fast thermal cycler (plus robotic nucleic acid extraction NVR-SOP-32)
Animal Blood, Serum, Tissues and Cell Culture Supernatants and Swabs	Rinderpest Virus (RPV) RNA	NVR-SOP-13 by one-step real-time RT-PCR supported by NVR-SOP-35 using AB 7500 Fast thermal cycler (plus robotic nucleic acid extraction NVR-SOP-32)
Animal Blood, Serum, Tissues and Cell Culture Supernatants and PPRV PCR Swabs	African Swine Fever Virus (ASFV)	NVR-SOP-20 by real-time PCR supported by NVR-SOP-35 using AB 7500 Fast thermal cycler (plus robotic nucleic acid extraction NVR-SOP-32)
Animal Blood, Tissues and Cell Culture Supernatants	Capripox Viruses (Lumpy skin disease virus, Sheep pox, Goat pox)	NVR-SOP-20 by real-time PCR supported by NVR-SOP-35 using AB 7500 Fast thermal cycler (plus robotic nucleic acid extraction NVR-SOP-32)
Animal Blood, Serum, Tissues and Cell Culture Supernatants	African Swine Fever Virus (ASFV)	NVR-SOP-29 by real-time PCR (UPL) supported by NVR-SOP-35 using AB 7500 Fast thermal cycler (plus robotic nucleic acid extraction NVR-SOP-32)
DISINFECTANTS FOR VETERINARY USE	Efficacy Testing against: Swine Vesicular Disease Virus, Foot and Mouth Disease Virus	Documented in-house standard operating procedure: BDTL-SOP-2 based on BS EN 14675:2015 by plaque assay
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