

# Schedule of Accreditation

issued by

## United Kingdom Accreditation Service

2 Pine Trees, Chertsey Lane, Staines-Upon-Thames, TW18 3HR, UK

 <p><b>UKAS</b> TESTING</p> <p><b>4025</b></p> <p>Accredited to <b>ISO/IEC 17025:2017</b></p>	<p><b>The Pirbright Institute</b></p> <p>Issue No: 035 Issue date: 08 July 2021</p>	
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<p><b>Testing performed at the above address only</b></p>		

### DETAIL OF ACCREDITATION

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
<p>ANIMAL TISSUES and FLUIDS</p> <p>Chicken Organs, Feathers, House Dust</p>	<p><u>Molecular Biology Tests</u></p> <p>Identification of Marek's Disease Virus (vMDV, CVI988, MDV-2 and HVT)</p>	<p>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 cyclers</p>
<p>Tissue Epithelium, Oesophageal Washings (Probang), Serum, EDTA Whole Blood and Milk</p>	<p>Identification of Foot-and-Mouth Disease Virus (FMDV) and related vesicular viruses</p>	<p>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</p>
<p>Faeces, Tissue Epithelium, Oesophageal Washings (Probang), Serum, EDTA Whole Blood and Milk</p>	<p>Identification of Swine Vesicular Disease Virus (SVDV)</p>	<p>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</p>
<p>Blood, serum, unspecified (cloven-hoofed animals)</p>	<p><u>Serology Tests</u></p> <p>Detection of Antibodies to structural and non-structural proteins of Foot-and-Mouth Disease (FMDV)</p>	<p>Documented in-house standard operating procedures:</p> <p>Methods developed and validated following the Flexible Scope Procedure SAU-METH-26 by manual ELISA processing using commercial test kits</p>



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ANIMAL TISSUES and FLUIDS (cont'd)	<u>Serology Tests</u> (cont'd)	Documented in-house standard operating procedures:
Blood and Serum, unspecified	Detection of antibodies to:  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



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ANIMAL TISSUES and FLUIDS (cont'd)	<u>Serology Tests</u> (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
Tissue, unspecified	<u>Virology Tests</u>  Detection and identification of Foot and Mouth Disease Virus (FMDV) & Swine Vesicular Disease Virus (SVDV)	Documented in-house standard operating procedures:  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/IZLER 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	<u>Molecular Biology Tests</u>	
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



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ANIMAL TISSUES, BLOOD (EDTA) and CELL CULTURE SUPERNATANTS (cont'd)	<u>Molecular Biology Tests</u> (cont'd)	Documented in-house standard operating procedures (cont'd):
Animal Blood, Tissues and Cell Culture Supernatants	Detection of specific nucleic acids for:  Blue Tongue Virus (BTV)	NVR-SOP-19 by one-step real-time RT-PCR supported by NVR-SOP-35 using AB 7500 Fast thermal cyclers (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 <i>et al</i> , 2015) supported by NVR-SOP-35 using AB 7500 Fast thermal cyclers (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 cyclers (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 <i>et al</i> , 2013) supported by NVR-SOP-35 using AB 7500 Fast thermal cyclers (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 cyclers (plus robotic nucleic acid extraction NVR-SOP-32)
Animal Blood, Serum, Tissues and Cell Culture Supernatants and Swabs	Pestis 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 cyclers (plus robotic nucleic acid extraction NVR-SOP-32)



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ANIMAL TISSUES, BLOOD (EDTA) and CELL CULTURE SUPERNATANTS (cont'd)	<u>Molecular Biology Tests</u> (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 <i>et al</i> 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	<u>Efficacy Testing against:</u>  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
END		