

Schedule of Accreditation

issued by

United Kingdom Accreditation Service

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

| | | |
|--|---|--|
|  <p>UKAS TESTING 4025</p> <p>Accredited to ISO/IEC 17025:2017</p> | <h3>The Pirbright Institute</h3> <p>Issue No: 030 Issue date: 16 September 2019</p> | |
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| <p>Testing performed at the above address only</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 cycler</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 Extraction System, WRL-SOP-36 Operation of the ABI 7500 FAST real-time machine</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 Extraction System, WRL-SOP-36 Operation of the ABI 7500 FAST real-time machine</p> |
| <p>ANIMAL TISSUES and FLUIDS</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 |
| Blood and Serum, unspecified | Non-structural protein of Foot and Mouth Disease Virus (FMDV) | SAU-SOP-10 (PrioCHECK® FMDV-NS) kits |
| Serum, Plasma: Bovine, Ovine, Caprine | Swine Vesicular Disease Virus (SVDV) | SAU-SOP-21 5B7 Monoclonal Antibody Competition ELISA |
| Serum: Ruminants | Capripox viruses (CaPV) | NVR-SOP-53 using Capripox IDVET Double Antigen ELISA |
| Serum: Equine | Blue Tongue Virus (BTV) | NVR-SOP-52 using IDVET C-ELISA |
| Serum: Porcine | African Horse Sickness Virus (AHSV) | NVR-SOP-4 using INGEZIM Compac Plus ELISA |
| Serum: Bovine and Cervid | African Swine Fever Virus (ASFV) | NVR-SOP-28 using INGEZIM PPA Compac ELISA |
| Serum and Plasma: Ovine, Caprine | Epizootic Haemorrhagic Disease Virus (EHDV) | NVR-SOP-33 using PrioCHECK ELISA |
| | Peste des Petits Ruminants Virus (PPRV) | NVR-SOP-3 using IDVET C-ELISA |



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| ANIMAL TISSUES and FLUIDS | <u>Virology Tests</u> | 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) |
| 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> | |
| | Detection of specific nucleic acids for: | |
| Animal Blood, Tissues and Cell Culture Supernatants | Blue Tongue Virus (BTV) (serotypes 1-26) | 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 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) |



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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 | African Horse Sickness Virus (AHSV) | NVR-SOP-54 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 | 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 | Peste 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) |
| 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) |



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| 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 | | |