

Schedule of Accreditation

issued by

United Kingdom Accreditation Service

21 - 47 High Street, Feltham, Middlesex, TW13 4UN, UK

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|  <p>UKAS TESTING 4025</p> <p>Accredited to ISO/IEC 17025:2005</p> | <h3>Institute for Animal Health</h3> <p>Issue No: 004 Issue date: 14 March 2012</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 |
|-----------------------------------|---|--|
| Animal Tissues | <p>Virology</p> <p>Detection and identification of Foot-and-Mouth disease virus (FMDV) & swine vesicular disease virus (SVDV)</p> | <p>Documented in house standard operating procedures:</p> <p>WRL 002 virus isolation</p> <p>WRL 006 ELISA (FMDV and SVDV antigen detection)</p> <p>WRL 033 Svanova 1F10 lateral flow device (FMDV antigen detection)</p> |
| Animal Tissues & Blood | <p>Molecular Biology</p> <p>Identification of Foot-and-Mouth disease virus (FMDV) and related vesicular viruses</p> <p>One-STEP RT-PCR amplification of RNA from vesicular disease viruses</p> | <p>Documented in house standard operating procedures:</p> <p>WRL 026 One step TaqMan® RT-PCR supported by: Nucleic acid extraction - WRL 025 using MagNA Pure LC and WRL 032 Qiagen Universal BioRobot</p> <p>EQL 790 Operation of the Stratagene Mx3005P for real-time PCR</p> |



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| <p>Animal Tissues & Blood (cont'd)</p> <p>Animal Blood (EDTA), tissues, cell culture supernatants</p> | <p>Molecular Biology (cont'd)</p> <p>Detection of specific nucleic acids as specified in procedures for:</p> <p>Blue Tongue Virus (serotypes 1-24)</p> <p>African Horse Sickness Virus</p> <p>Epizootic Haemorrhagic Disease Virus</p> <p>Peste des Petits Ruminants Virus African Swine Fever Virus</p> <p>Capripox Viruses (Lumpy skin disease virus, Sheep pox, Goat pox)</p> <p>Detection of Bluetongue virus RNA serotypes 1-26</p> | <p>Documented in house standard operating procedures:</p> <p>In-house methods: GEN 005 (reverse transcriptase) and GEN 006 as appropriate By real time PCR using Stratagene Mx3005 thermocycler (plus robotic nucleic acid extraction GEN 003 and GEN 004)</p> <p>SOP NVR-ARB-NVR020 by real time RT PCR using Stratagene Mx3005 thermocycler (plus robotic nucleic acid extraction GEN 003 and GEN 004)</p> |
| <p>Blood and serum (animal)</p> | <p>Serology</p> <p>Detection of antibodies against vesicular and related viruses</p> <p>Detection of antibodies against Foot-and-Mouth disease virus (FMDV)</p> <p>Detection of antibodies against the non-structural protein of Foot-and-Mouth disease virus (FMDV)</p> <p>Detection of antibodies against the structural protein of Foot-and-Mouth disease virus (FMDV)</p> <p>Detection of antibodies against Foot-and-Mouth disease virus (FMDV)</p> | <p>Documented in house standard operating procedures:</p> <p>SAU 004 Virus neutralisation test (VNT)</p> <p>SAU 005 Liquid Phase Blocking ELISA (LPBE)</p> <p>SAU 010 Ceditest® FMDV-NS (prioCHECK® FMDV-NS) kits</p> <p>SAU 011 Solid-phase competition ELISA (SPCE)</p> <p>SAU 012 PrioCHECK® FMDV type kits</p> |



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| <p>Blood or Serum (animal) (cont'd)</p> <p>Serum: Ovine, bovine, caprine, camelid</p> <p>Serum: Equine</p> <p>Serum: Porcine</p> <p>Serum: bovine and cervid</p> <p>Disinfectants for veterinary use</p> | <p>Serology (cont'd)</p> <p>Detection of antibodies against swine vesicular disease virus (SVDV)</p> <p>Detection of antibodies to:</p> <p>Blue Tongue Virus</p> <p>African Horse Sickness Virus</p> <p>African Swine Fever Virus</p> <p>Epizootic Haemorrhagic Disease Virus (EHDV) antibodies</p> <p>Efficacy Testing against:</p> <p>Swine Vesicular Disease Virus and Foot and Mouth Disease Virus</p> | <p>Documented in house standard operating procedures:</p> <p>SVD 008 5B7-Monoclonal Antibody Competition (MAC) ELISA</p> <p>In house documented methods:</p> <p>SOP ARB-018 using IDVET ELISA</p> <p>SOP ARB-019 using INGEZIM Compac Plus ELISA</p> <p>SOP ASF-002 using INGEZIM PPA Compac ELISA</p> <p>SOP NVR-ARB-021 by blocking ELISA (LSIVET)</p> <p>In-house method: BSEC-DIS-002 based on BS EN 14675:2006 By plaque assay for DEFRA approval purposes</p> |
| | END | |