

Schedule of Accreditation

issued by

United Kingdom Accreditation Service

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

 1769 Accredited to ISO/IEC 17025:2017	Animal and Plant Health Agency Issue No: 149 Issue date: 23 April 2025	
	Woodham Lane New Haw Addlestone Weybridge Surrey KT15 3NB	Contact: Sarah Eagle Tel: + 44 (0) 208 415 2159 E-Mail: sarah.eagle@apha.gov.uk Website: www.gov.uk/apha

Testing performed by the Organisation at the locations specified below

Locations covered by the organisation and their relevant activities

Laboratory locations:

Location details	Activity	Location code
Address APHA Bury St Edmunds Veterinary Investigation Centre Rougham Hill Bury St Edmunds Suffolk IP33 2RX Local contact Ms Lisa Thurston Tel: +44 (0)3000600018	<u>Testing:</u> PM examination with associated staining and worm count <u>Sampling:</u> Necropsy procedures	BUR
Address APHA Carmarthen Veterinary Investigation Centre Job's Well Road Johnstown Carmarthen Carmarthenshire SA31 3EZ Local contact Mr Sean Madden Tel: +44 (0)3000600016	<u>Testing:</u> Parasitology, PM examination with associated staining and worm count, Immunology Bacteriology <u>Sampling:</u> Necropsy procedures	CAR
Address APHA Lasswade Laboratory Pentlands Science Park Bush Loan Penicuik Midlothian E26 0PZ Local contact Mr C Donnelly Tel: +44 (0)3000600010	<u>Testing:</u> Serology, Avian PM examination <u>Sampling:</u> Avian necropsy procedures	LAS



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Location details	Activity	Location code
Address APHA Newcastle Veterinary Investigation Centre Whitley Road Longbenton Newcastle-upon-Tyne NE12 9SE Local contact Ms K Henderson Tel: +44 (0)3003038269	<u>Testing:</u> Bacteriology, Serology, Microscopy, Immunology, Compost Testing <u>Support Functions:</u> Preparation, validation and supply of culture media	NEW
Address APHA Penrith Veterinary Investigation Centre Merrythought Calthwaite Penrith Cumbria CA11 9RR Local contact Mrs N Stamper Tel: +44 (0)3000600012	<u>Testing:</u> Bacteriology, Molecular Biology, Mycology, Parasitology, Serology, Virology, PM examination <u>Sampling:</u> Necropsy procedures Fitness for purpose checks of latex streptococcal grouping kit. Internal Quality Control of API ID kits	PEN
Address APHA Quality Assurance Unit College Road Sutton Bonington Loughborough Leicestershire LE12 5RB Local contact Dr Neil Dear Tel: +44 (0)3000600003	<u>Support Functions</u> Supply of control cultures and reagents	QAU
Address APHA Shrewsbury Veterinary Investigation Centre Kendal Road Harlescott Shrewsbury Shropshire SY1 4HD Local contact Ms Lisa Thurston Tel: +44 (0)3000600023	<u>Testing:</u> PM examination with associated staining and worm count <u>Sampling:</u> Necropsy procedures	SHR



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Address APHA Starcross Veterinary Investigation Centre Staplake Mount Starcross Devon EX6 8PE Local contact Dr. Jo Mayers Tel: +44 (0)3000600020	<u>Testing:</u> Bacteriology, Mycology, Parasitology, Virology, PM examination <u>Sampling:</u> Necropsy procedures <u>Support Functions:</u> Validation and supply of conjugate and control slides for <i>Clostridium chauvoei</i> , <i>septicum</i> and <i>novyi</i> FAT Preparation and validation of conjugate for <i>Streptococcus</i> <i>suis</i> FAT	STA
Address APHA Thirsk Veterinary Investigation Centre West House Station Road Thirsk North Yorkshire YO7 1PZ Local contact Mrs Judith Hawkhead Tel: +44 (0)3000600098	<u>Testing:</u> PM examination with associated staining and worm count Immunology Serology <u>Sampling:</u> Necropsy procedures	THI
Address APHA Weybridge Laboratory Services Department Woodham Lane New Haw Addlestone Surrey KT15 3NB Local contact Mrs Louise Fothergill Tel: +44 (0)3000600022	<u>Testing:</u> Bacteriology, Bacteriology (Mycobacteria) Molecular Biology, Serology, Virology <u>Support Functions:</u> TB media QC	LSW
Address APHA York SandHutton YO41 1LZ Local Contact Dr Julie Lane Tel: +44 2080262492	<u>Testing</u> Parasitology	YOR



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Location details	Activity	Location code
Address APHA Weybridge Pathology and Animal Sciences Department Woodham Lane New Haw Addlestone Surrey KT15 3NB Local contact Mrs Cathy Hughes Tel +44 (0)2080269504	<u>Testing:</u> Histology TSE Western Blot Microscopy Disinfection testing	PATH
Address APHA Weybridge Quality Services Woodham Lane New Haw Addlestone Surrey KT15 3NB Local contact Ms Sarah Eagle Tel: + 44 (0) 208 415 2159	<u>Support Functions:</u> Group auditing, advice and consultancy Maintenance of Group Suppliers list	QS
Address APHA Weybridge Department of Bacteriology Woodham Lane New Haw Addlestone Surrey KT15 3NB Local contact Mr G Barden Tel: +44 (0)2080269652	<u>Testing:</u> Bacteriology, Molecular Biology Disinfectant testing <u>Support Functions:</u> Brucella, Campylobacter and Mycoplasma media QC Plate and reagent preparation for BAC 0021 (Brucella abortus antibody in milk ELISA) Evaluation of salmonella SAT antisera to APHA	BAC2, BAC3, BAC5
Address APHA- Weybridge Virology Department Woodham Lane New Haw Addlestone Surrey KT15 3NB Local contact Ms Alex Paschali Tel: + 44 (0)2087200770	<u>Testing:</u> Virology, Molecular biology	VI1, VI2, VI5, VI6



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DETAIL OF ACCREDITATION

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
ANIMALS, TISSUES, BIOLOGICAL FLUIDS, ANIMAL FEEDS, FOODS, MICROBIAL CULTURES AND ENVIRONMENTAL SAMPLES AS SPECIFIED	BACTERIOLOGY	Documented In-house Standard Operating Procedures (SOPs)	
Unspecified	<u>Testing</u> General isolation, characterisation and identification of micro-organisms	BA.388 and BA.399	PEN, STA
Sheep and Goat Foetuses	Isolation and determination of presumptive <i>Brucella</i> spp	BA.002 culture and BA.001 modified Ziehl-Neelsen stain	PEN, STA, BAC5
Bull Sheath Washings	Antibody detection of <i>C. fetus</i> and <i>C. venerealis</i>	BA.612 in accordance with Artificial Insemination of Cattle Regulations 1985 by fluorescent antibody test	STA
Bull Sheath Washings	Culture and isolation of <i>Campylobacter</i> spp and identification of <i>C. fetus</i> and <i>C. venerealis</i>	BA.007 in accordance with Artificial Insemination of Cattle Regulations 1985 by Culture	STA
Vaginal and Bull Sheath Washings	<i>Trichomonas foetus</i> culture screening	BA.261 by direct microscopical examination	STA
Equine Genital Tract Samples	Examination for the presence of <i>Taylorella equigenitalis</i>	BA.008 as screening for CEMO under the Code of Practice of the Horse Race Betting Levy Board	PEN
Milk and Bovine Specimens	Screening for <i>Brucella abortus</i> :	Test under the Brucellosis Order 1981	
	a) Rose Bengal Plate Test	a) BA.010	LSW, PEN, STA, BAC5
	b) Microscopical examination of abortion materials	b) BA.001	PEN, STA, BAC5
	c) isolation from animal tissues and fluids	c) BA.002	PEN, STA,



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ANIMALS, TISSUES, BIOLOGICAL FLUIDS, ANIMAL FEEDS, FOODS, MICROBIAL CULTURES AND ENVIRONMENTAL SAMPLES AS SPECIFIED (cont'd)	BACTERIOLOGY (cont'd)	Documented In-house Standard Operating Procedures (SOPs)	
	<u>Testing</u> (cont'd)		
Aerobic and Microaerobic Organisms Isolated from Disease Situations	Screening against antimicrobials to generate a susceptibility profile	BA.016 Antimicrobial susceptibility testing using both manual and automated zone reading	PEN, STA
<i>E coli</i> Cultures Isolated from Pig, Sheep and Cattle	Typing of <i>Escherichia coli</i> isolates	BA.018 by Fimbrial Adhesion Typing and by slide agglutination	STA
Pig Intestinal and Faecal Samples	Isolation of <i>Brachyspira hyodysenteriae</i>	BA.019 by culture methods	STA
<i>Brachyspira</i> Cultures	Identification of <i>Brachyspira</i> spp	BA.502 by SAT and biochemical tests	STA
Feeding Stuffs	Detection of constituents of animal origin	SE.067 using microscopical techniques, in accordance with EC Commission Directive 2003/126/EC	PATH
Feeding Stuffs, Faecal Samples, Tissue and Environmental samples (dust, boot swabs and egg shells)	Isolation of <i>Salmonella</i> spp	Method No BA.504 based on BS EN ISO 6579-1:2017+A1:2020 confirmation using biochemical and serological tests for the purposes of the Control of Salmonella in Poultry Order (CSPO) (England, Scotland Wales) 2007 supported by BA.506 Salmonella – Isolation from poultry under National Control Programmes for Salmonella in Poultry	BAC2, NEW



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4,000 Whole Eggs	<u>Testing</u> (cont'd) Detection of <i>Salmonella</i> spp. (motile) (Confirmation)	BA.504 documented in house method based on BS EN ISO 6579-1:2017+A12020 (employing MSRV) for matrices as required for the purposes of testing in accordance with Control of Salmonella in Poultry Orders*: CSPO 2007 CSBO 2009 CSTO 2009 * refer to www.gov.uk for current laboratory approval status	NEW
Environmental samples Poultry caecal contents and neck skins	Detection, identification and enumeration of <i>Campylobacter</i> spp	BAC0286 and BAC0287 Confirmation based on ISO 10272-1:2017 for the purposes of the Commission Decision 2007/513/EC	BAC2
Suspect <i>Campylobacter</i> colonies from sheep blood agar	Identification of <i>Campylobacter coli</i> and <i>Campylobacter jejuni</i>	Identification using BAC0334 Bruker MALDI TOF instrument	BAC2
Tissues, Faeces and Body Fluids	Isolation of <i>Salmonella</i> spp	BA.325, using selenite, BGAN and XLD	PEN, STA, NEW, CAR
Tissue and Faecal Samples	Isolation and identification of <i>E. coli</i> O157	BA.031 using magnetic particle separation and latex confirmatory test (Oxoid)	STA



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	<u>Testing</u> (cont'd)		
Tissue Smears	Demonstration of the presence of <i>Streptococcus suis</i> Type II	BA.039 by Fluorescent Antibody Technique	STA
Tissue Smears or Cultures	Screening for <i>Clostridium novyi</i> B, <i>Clostridium septicum</i> and <i>Clostridium chauvoei</i>	BA.017 by FAT using VRMD conjugates	PEN, STA
Streptococci Cultures	Lancefield antigen grouping	BA.045 using direct precipitation, or commercial kits	STA
Processed Animal Protein	Enumeration of <i>Clostridium perfringens</i>	Method BA.081 based on BS EN ISO 7937:2004 for the purpose of the Animal By-Products (Enforcement) Regulations 2013	NEW
Processed Animal Protein including raw pet food, animal feed and Compost and Biogas	Enumeration of Enterobacteriaceae	Method No BA.083 based on BS EN ISO 21528:2017 for the purpose of the Animal By-Products (Enforcement) Regulations 2013	NEW
	<u>Detection</u>		
Processed Animal Protein including raw pet food, animal feed and Compost and Biogas	<i>Salmonella</i> spp (confirmed)	Documented In-house methods CBU0252 based on BS EN ISO 6579-1:2017+A1:2020 for the purpose of the Animal By-Products (Enforcement) Regulation (ABPR) 2013 (amended 2015) implementing Regulation (EU) No 142/2011 (as amended)	NEW
Streptococci Cultures	Typing	BA.112 using latex kit	PEN, STA



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	<u>Testing</u> (cont'd)		
Presumptive Cultures of <i>Tylorella equigenitalis</i>	Detection of the presence of phosphatase	BA.140 by slide test	PEN
Intestinal Mucosa (Porcine)	Demonstration of the presence of <i>Lawsonia intracellularis</i>	BA. 001 modified ZN staining technique	STA
Tissue Smears	Demonstration of the presence of <i>Chlamydia psittaci</i> , <i>Brucella</i> spp and other similarly staining acid-fast organisms	BA.001 by modified Ziehl-Neelsen staining	CAR, PEN, STA, THI, SHR, BUR
Tissues	Isolation of <i>Listeria</i> spp	BA.172	PEN, STA
Swabs from Birds	Isolation of <i>Salmonella</i> spp for export certification	CBU0169 based on Edwards and Ewing (ISBN 0444 009817) using selective media (eg selenite)	BAC2
Brucella Cultures	Classification of <i>Brucella</i> spp to species and biovar level	BAC0167, BAC0168, BAC0169, BAC0170, BAC0171, BAC0173	BAC5
Campylobacter Cultures	<i>Campylobacter</i> spp - confirmation of speciation and sub-speciation	BAC0089	BAC2, STA
Salmonella Cultures	Antimicrobial surveillance for susceptibility	CBU0020 using disc diffusion based on British Society for Antimicrobial Chemotherapy	BAC2
Salmonella Cultures	Serotyping of <i>Salmonella</i> spp	Agglutination tests CBU0001 (somatic antigens), and CBU0005 (flagella antigens), CBU0043, CBU0044, CBU0045, CBU0075, based on Kauffman-White scheme	BAC2



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Salmonella Cultures	<u>Testing</u> (cont'd) Differentiation of Salmovac 440 and Avipro (T and E) vaccine strains using auxotrophic and antibiotic resistance markers	CBU0266 minimal media and antimicrobial incorporated agar media and CBU0020 using disc diffusion based on British Society for Antimicrobial Chemotherapy	BAC2
<i>Salmonella enteritidis</i> and <i>Salmonella typhimurium</i> , Cultures	Phage typing	CBU0146, based on The Central Public Health Laboratory (Colindale) typing schemes	BAC2
Microbial Cultures, tissues and faeces	Detection of Mycobacteria	BA.562 Kinyoun cold stain for Acid Alcohol Fast Bacilli (Aafb)	CAR, LSW, PEN, STA, THI, BUR, SHR
Mycoplasma Cultures	Identification of species	BAC0068	BAC5
Animal tissues	Detection of Mycobacteria	TB Diagnosis BA. 608, BA.609, BA.610, BA.611 using solid agar culture, supported by BA.562 manual staining	LSW, STA, PEN
Bovine Faeces	Detection of <i>Mycobacterium avium</i> subspecies <i>paratuberculosis</i> (MAP)	SOP BA.505 by liquid culture system (Treks Diagnostic)	STA
Salmonella Cultures	Serological identification of <i>Salmonella</i> spp	BA.079 using slide agglutination test	BAC2, NEW, PEN, STA, CAR



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Composts and Biogas	<u>Testing</u> (cont'd) Isolation and enumeration of β - glucuronidase positive <i>E. coli</i>	BA.507 based on BS EN ISO 16649-2:2001 for the purposes of the Animal By Products Regulation 2013 in accordance with EU Animal By Products Regulation 1069/2009 and EU Regulation 142/2011	NEW
DISINFECTANTS FOR VETERINARY USE	<u>Efficacy Testing</u> Bactericidal Efficacy	Documented In-house Standard Operating Procedures (SOPs) BAC0154 based on BS 6734:1986 & BS 6734:2004	BAC2
	Efficacy against Newcastle Disease Virus Determination of virus titres in a pre-determined disinfectant concentration	QCU0408 using bioassay	PATH
	Determination of the effective disinfectant concentration range for Newcastle Disease Virus	QCU0482 using bioassay and a known virus concentration	PATH
TISSUE AS SPECIFIED	HISTOLOGY	Documented In-house Standard Operating Procedures (SOPs)	
Formalin-fixed Animal Central Nervous System	<u>Testing</u> Detection of abnormal prion protein PrP	NEU028 (and supporting SOPs), by staining with H&E and IHC R145 and light microscopy. For compliance with Regulation (EC) 999/2001	PATH



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BIOLOGICAL FLUIDS	IMMUNOLOGY	Documented In-house Standard Operating Procedures (SOPs)	
Bovine Plasma	Detection of gamma interferon (IFN- γ) in whole blood culture supernatants	BAC0099, BAC0100 and supported by BAC0266 using Bovigam Gamma ELISA kit.	NEW, CAR, THI
ANIMAL FEED, TISSUES, BIOLOGICAL FLUIDS AND MICROBIAL CULTURES AS SPECIFIED	MOLECULAR BIOLOGY		
Animal tissues, swabs, pooled swabs, whole blood, cell supernatants, semen, serum, bulk milk and bacterial cultures	Detection and/or identification of veterinary DNA or RNA	GP.027 Flexible and Fixed Scope Accreditation Management supported by AP.56 (APHA Test Management) Methods developed and validated using endpoint PCR with gel analysis of products and real Time PCR using manual or robotic extraction and test kits	VI1, VI5, VI6, PEN, LSW, BAC
Newcastle Disease Virus Isolate	Nucleotide Sequencing	VI.448 plus supporting SOPs, by RT-PCR	VI6
Avian Influenza H5 and H7 isolates	Nucleotide Sequencing	VI.545 plus supporting SOPs, by RT-PCR using Stratagene MX3000/4000 or AriaMX instrumentation.	VI6
Avian Tissues, Swabs and Fluids	Automated Nucleic Acid extraction	VI.718: Automated nucleic acid extraction using Thermofisher Kingfisher Flex Robot and MagMAX CORE purification kit	VI6
	Manual RNA Extraction	VIR0165: Manual RND extraction using Qiagen viral minikit	VI6



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Avian Tissues, Swabs and Fluids	1) Detection of H5 Eurasian influenza virus gene (screening test) 2) Detection of highly pathogenic avian influenza viruses of subtype H5	VI.492 real time RT PCR using Stratagene MX 3000/4000 or AriaMX instrumentation	VI6
Avian Tissues, Swabs and Fluids	Detection of viruses of subtype N8 avian influenza virus (AIV)	VI.684 Reverse transcription Realtime (RRT-) PCR using Stratagene MX3000/4000 or AriaMX instrumentation for the detection of avian influenza viruses of subtype N8	VI6
Avian Tissues, Swabs and Fluids	Detection of viruses of subtype N1 avian influenza virus (AIV)	VI.555 real time RT- PCR using Stratagene MX3000/4000 or AriaMX instrumentation.	VI6
Avian Tissues, Swabs and Fluids	Detection of viruses of subtype N5 avian influenza virus (AIV)	VI.689 Reverse transcription Realtime (RRT-) PCR using Stratagene MX3000/4000 or AriaMX instrumentation for the detection of avian influenza viruses of subtype N5	VI6
Avian Tissues, Swabs and Fluids	Detection of viruses of subtypes N6, N7 and N9 avian influenza virus (AIV)	VI.696 Reverse transcription Realtime (RRT-) PCR using Stratagene MX3000/3005 or AriaMX instrumentation for the detection of avian influenza viruses of subtypes N6, N7 and N9	VI6



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Avian Tissues, Swabs and Fluids	1) Detection of H7 Eurasian influenza virus gene 2) Determination of low or high pathogenicity (screening tests)	VI.536 real time RT PCR using Stratagene MX 3000/4000 or AriaMX instrumentation	VI6
Avian Tissues, fluids and swabs including pooled swabs up to 5 in a pool	Newcastle Disease Virus (APMV-1) L-gene screening	SOP VI.570 using the Qiagen Quantifast Probe Kit with MGB probes for the detection of orthoavulvavirus type 1 (AOAV-1) RNA by Real-time PCR using Stratagene MX3000/4000 or Aria MX instrumentation	VI6
Avian Tissues, fluids and swabs including pooled swabs up to 5 in a pool	Detection of influenza A matrix gene (screening test)	VI.493 real time RT PCR using Stratagene MX 3000/4000 or AriaMX instrumentation VI.659 Preperation and processing of swab pools for detection of influenza A matrix gene and/or APMV-1 L-gene by real-time Taqman® RT-PCR	VI6, LSW VI6
Porcine swabs (including pools up to 3) and tissues	Detection of Swine Influenza A matrix gene	VI.568 screening test using real-time Taqman RT-PCR	VI6, LSW
BovineTissues	Detection of proviral bovine Leukaemia virus env gene (EBL) (screening test)	VI.454 PCR and gel Visualisation based on OIE method	VI5



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DNA product and plasmids	DNA sequencing	MB.026, MB.027, (with or without a product clean up stage) using Applied Biosystems (ABI) 3130xl capillary genetic analyser and 3730 capillary genetic analyser and supported by MB.028	LSW
DNA, RNA, Bacterial lysates	Next generation sequencing (NGS) of DNA and reporting sequencing results as FASTQ data files	MB.041 Conversion of RNA to Cdna MB.040, MB.045 NGS using illumine platform (MiSeq and NextSeq)	LSW LSW
Caprine and Ovine ear samples, EDTA blood and brain tissue	3 codon, 4 codon and Open Reading Frame (ORF) PrP genotyping (Scrapie)	MB.009, MB.0024 supported by MB.002, MB.008, MB.006 For compliance with Regulation (EC) 999/2001	LSW
Canine EDTA blood	<i>Babesia gibsoni</i> DNA	MB.066 Real-time PCR using AriaMx and MB.002 DNeasy extraction kit	LSW
Animal Tissues, Sera (single and pooled) and bulk milk	Detection of Bovine Viral Diarrhoea Virus (BVDV) RNA	MB.004, by real time Taqman nested RT-PCR using Applied Biosystems MagMAX Express 96 and Stratagene MX3000P for PCR	PEN
Animal Tissues, Sera (single and pooled) and bulk milk	Border Disease Virus (BDV) RNA	MB.004, by real time Taqman nested RT-PCR using Applied Biosystems MagMAX Express 96 and Stratagene MX3000P for PCR	PEN
Brain and Central Nervous Tissues, Cattle and Sheep (fresh or frozen)	Detection of abnormal prion protein PrP ^{Res}	SE.198, by Bio-Rad TeSeE Western Blot kit	PATH



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ANIMAL FEED, TISSUES, BIOLOGICAL FLUIDS AND MICROBIAL CULTURES AS SPECIFIED (cont'd)	MOLECULAR BIOLOGY (cont'd)	Documented In-house Standard Operating Procedures (SOPs)	
Kidney Tissue (single and pooled) and urine	Detection of pathogenic leptospires	MB.007 by real time PCR Applied Biosystems MagMAX Express 96 and Strategene MX3000P for PCR	PEN
Kidney Tissue (single and pooled) and urine	Detection of pathogenic leptospires	MB.007 by real time PCR Applied Biosystems MagMAX Express 96 and Strategene MX3000P for PCR	PEN
Animal Feed	Detection of ruminant DNA	MB.042 by real time PCR using Strategene MX3000	PATH
Porcine Sera (single and pooled) and tissue	Detection of Porcine Reproductive Respiratory Syndrome Virus (PRRSV-1 and PRRSV-2)	MB.023 real-time RT-PCR using VetMAX™ EU and NA Kit using the KingFisher Flex Purification System and the Aria Real Time PCR System	PEN
Clinical material (tissues, fluids and swabs) and Mycoplasma cultures	Identification of <i>Mycoplasma</i> species	SOP BAC0022 (PCR) and BAC0161 (DGGE) with gel electrophoresis supported by manual extraction (BAC0177) or automated extraction (BAC0320)	BAC5
Porcine Blood and tissues	Detection of Classical Swine Fever Virus (CSFV) RNA and African Swine Fever Virus (ASFV) DNA	VI. 565 multiplex real-time Taqman RT-PCR including Qiagen Virotype® CSF assay	VI5
Semen (equine)	Detection of Equine Arteritis Virus nucleic acid (for disease investigation and export testing)	VI.667 using the real time RT-PCR assay and QIAGEN QIAamp®Viral RNA	VI5
Tissues and Fluids (Animal and Human)	Detection of rabies virus RNA	VIR0183 Pan-Lyssavirus hemi-nested PCR using VIRO179 gel electrophoresis plus supporting SOPs	VI1



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ANIMAL FEED, TISSUES, BIOLOGICAL FLUIDS AND MICROBIAL CULTURES AS SPECIFIED (cont'd)	MOLECULAR BIOLOGY (cont'd)	Documented In-house Standard Operating Procedures (SOPs)	
Tissues	Lyssavirus: Detection and differentiation of genotypes 1, 5 and 6	VIR0185 using Real-time Taqman RT-PCR and Thermocycler Stratagene MX3000	VI1
Tissues	Detection of all Lyssavirus species	VI.656 Lyssavirus SYBR® Green real-time RT-PCR assay	VI1
Bovine, Caprine and Ovine Blood (single and pooled)	Confirmation of the presence of Bluetongue virus DNA	MB.025 Virus extraction and RT-qPCR using the Hofmann assay	LSW
Bull and Sheep Semen	Detection of Schmallenberg virus	VI.661 nucleic acid detection using RT-PCR (TaqMan fluorogenic probe)	VI5
Salmonella cultures	Semi-automated genomic DNA extraction suitable for Whole genome sequencing by Illumina NGS sequencers	BAC0426 using Thermo Scientific Kingfisher Instruments and kits	BAC2, BAC3
Sequence Data derived from Whole Genome Sequencing of <i>Mycobacterium bovis</i> isolates	Assignment of sequence cluster using whole genome sequencing (WGS) of <i>Mycobacterium bovis</i> isolates	Generation of whole genome sequence (WGS) data using Illumina platform – MB040 Use of inhouse bioinformatics pipeline, to assign a <i>Mycobacterium bovis</i> sequence cluster to an isolate based upon the WGS data – MB048	LSW
<i>Salmonella</i> spp. isolates	Assignment of sequence cluster using whole genome sequencing (WGS) of <i>Salmonella</i> spp. serotypes	DNA extraction using BAC0426, generation of WGS data using Illumina platform by method MB040 and serotyping of <i>Salmonella</i> spp. Using BAC0429	BAC3



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Brucella spp cultures	Confirmation of <i>Brucella</i> spp. culture material	BAC0416 Quantitative PCR for the confirmation of Brucella spp. culture material	BAC5
Pooled Swabs	Detection of <i>Taylorella equigenitalis</i>	SOP MB.012 in clinical swabs by real time PCR	PEN
HUMAN BODY FLUIDS	Molecular examination activities for the purpose of clinical diagnosis		
Human and animal nose and throat swabs in VTM	Detection of SARS-CoV-2 RNA Targets: E-gene and RdRp gene	VI.746plus supporting SOPs by real-time RT-PCR by manual or robotic extraction and the AriaMX thermocycler based on the methodology documented by Corman et al 2020	VI1
TISSUES AND MICROBIAL CULTURES AS SPECIFIED	MYCOLOGY	Documented In-house Standard Operating Procedures (SOP's)	
Microbial Cultures	Detection of <i>Dermatophilus</i> sp	BA.034 using Methylene blue stain	PEN, STA
Skin	Isolation and identification of <i>Dermatophilus congolensis</i>	MY.006 culture supported by BA.034 Methylene Blue staining	PEN, STA



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ANIMALS, TISSUES AND BIOLOGICAL FLUIDS AS SPECIFIED	PARASITOLOGY *Indicates analysis performed under Food Standards Agency designated as an Official Laboratory (monitoring), and ** National Reference Laboratory in accordance with retained Regulation (EU) 2017/625	Documented In-house Standard Operating Procedures (SOP's)	
Blood	Detection of <i>Babesia gibsoni</i>	PAR0005 by Giemsa stain	LSW
Blood	Detection of <i>Dirofilaria immitis</i> microfilariae (Canine and Feline Heartworm)	PAR0081 by filtration	CAR
Whole blood and smears, canine and equine	Detection of <i>Trypanosoma spp.</i>	PA.082 Examination of blood smears using Giemsa stain	LSW
Faeces/Gastro-intestinal Contents	Detection of <i>Cryptosporidium</i>	PA.001 by modified Ziehl-Neelsen stain	PEN, CAR, STA
Faeces/Gastro-intestinal Contents	Detection of Lungworm larvae	PA.008 using the Baermann technique	CAR
Faeces/Gastro-intestinal Contents	Estimation of Nematode egg and coccidial oocytes load	PA.011 by improved modified McMaster technique	CAR, PEN, STA, THI, BUR, SHR
Faeces/Gastro-intestinal Contents	Detection of Fluke eggs	PA.026 by sedimentation	CAR
Faeces/Gastro-intestinal Contents	Composite worm egg count	PA.070 for monitoring	CAR
	Estimation of nematode eggs and coccidial oocysts load in Camelids	PA.075 by improved modified McMaster technique	CAR
Ruminant Alimentary Tract	Worm counting	PA.028 by filtration	CAR
Ruminant Alimentary Tract	Preparation of alimentary tract sample for worm counting	PA.028 by filtration	CAR, PEN, STA, THI, BUR, SHR



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ANIMALS, TISSUES AND BIOLOGICAL FLUIDS AS SPECIFIED (cont'd)	PARASITOLOGY (cont'd) *Indicates analysis performed under Food Standards Agency designated as an Official Laboratory (monitoring), and ** National Reference Laboratory in accordance with retained Regulation (EU) 2017/625	Documented In-house Standard Operating Procedures (SOP's)	
Serum	Demonstration of <i>Toxoplasma</i> infection	PA.006 using Latex agglutination test	LSW
Wool, Hair and Feathers	Detection of Ectoparasites	PA.005 by direct microscopy	CAR
Muscle Tissues	Detection of <i>Trichinella spiralis</i> *	PARA 050 by rapid heated muscle digest	YOR
Fish tissue (fresh, frozen and lightly prepared)	Detection of Anisakidae L3 larvae **	PARA 052 by artificial digestion method based on BS EN ISO 23036-2:2021	YOR
Faecal Samples	Detection of <i>Echinococcus</i>	PARA .026, PARA.027 and PARA .029 by DNA Lyse and Extraction Amplification of cestode DNA using primers in multiplex PCR	YOR
ANIMALS AS SPECIFIED	POST MORTEM <u>Sampling and Examination</u>	Documented In-house Standard Operating Procedures (SOP's)	
Mammalian, Avian and Fish Species	Necropsy procedures on carcasses to collect tissue samples for diagnostic examination	PM.016 general necropsy procedures	BUR, CAR, LAS, PEN, SHR, STA, THI



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TISSUES AND BIOLOGICAL FLUIDS AS SPECIFIED	SEROLOGY	Documented In-house Standard Operating Procedures (SOP's)	
Blood or Serum (animal and human)	Detection of Rabies antibodies	1) VI.055 by FAVN, based on the OIE Standard Method	VI1
		2) VI.723 by FAVN based on OIE standard using Cytation 5 hybrid multimode microplate reader	VI1
Blood, Ovine or Caprine	Detection of <i>Chlamydia abortus</i>	SE.010 by Complement Fixation Test	LSW
Serum (porcine)	Detection of antibodies to African Swine Fever Virus	SE.205 using Ingezim PPA Compac ELISA	LSW
Serum (equine)	Detection of antibodies to African Horse Sickness Virus	SE.206 using Ingezim Compac PLUS ELISA	LSW
Serum, plasma, whole blood and milk (individual and bulk samples)	Detection of antibody or antigen to veterinary pathogens (Capture or Competitive)	GP.027 Flexible and Fixed Scope Accreditation Management supported by AP.056 (APHA Test Management) using ELISA test kits with automated or manual processing	LAS, NEW, LSW, BAC, VI2
Bovine Serum	Detection of <i>Mycoplasma bovis</i>	BAC0112 using ELISA	LSW, BAC5
Milk	Detection of antibodies to <i>Brucella abortus</i>	BAC0021 using ELISA (indirect)	LSW, BAC5
Milk, bovine (individual or bulk samples)	Detection of antibodies to Bovine Rhinotracheitis virus	VI.052 using ELISA (IDEXX Pourquier kit)	LSW
Milk, bovine (individual or bulk samples)	Detection of <i>Leptospira hardjo</i> antibodies	SE.177 using indirect ELISA (Prionics)	LSW
Bovine Milk (bulk)	Detection of antibodies to <i>Brucella abortus</i>	SE.254 using IDEXX iELISA	LSW
Milk, bovine (individual or bulk samples)	Detection of antibodies to bovine viral diarrhoea (BVD)	SE.234 using ELISA (SVANOVA)	LSW



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TISSUES AND BIOLOGICAL FLUIDS AS SPECIFIED (cont'd)	SEROLOGY (cont'd)	Documented In-house Standard Operating Procedures (SOP's)	
Serum	Detection of antibodies to Enzootic Bovine Leucosis Virus	1) SE.003 using indirect IDEXX ELISA	LSW
		2) VI.119 using agar gel Immunodiffusion (AGIDT) using IDEXX kit	LSW
Serum	Detection of antibodies to Infectious Bursal Disease	SE.143 by AGIDT	LAS
	Detection of antibodies to Fowl Pox virus	SE.151 by AGIDT, for international trade and diagnostic purposes	LAS
	Detection of Maedi Visna virus antibody	SE.004 using AGIDT	LSW
	<i>Brucella abortus / melitensis / suis</i> , screening	BA.010 using Rose Bengal Plate Test	LSW, PEN, STA, BAC5
Serum	Detection of:		
	<i>Brucella abortus / melitensis / suis</i>	1) BA.265 using serum agglutination	LSW
		2) BA.266 using complement fixation	LSW
		3) BA.199 using in-house ELISA	LSW
	<i>Brucella ovis</i>	BA.267 using complement fixation	LSW
	<i>Brucella canis</i>	BA.268 by serum agglutination	LSW
Serum (cont'd)	<i>Erysipelas</i>	BA.125 using microtitre serum agglutination test	LSW



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TISSUES AND BIOLOGICAL FLUIDS AS SPECIFIED (cont'd)	SEROLOGY (cont'd)	Documented In-house Standard Operating Procedures (SOP's)	
Camelid and Deer Serum	Detection of antibodies to <i>Mycobacterium bovis</i>	BAC0363 using a modified IDEXX Mycobacterium bovis Antibody Test ELISA Kit, changing the second antibody to Protein-G-HRP	STA
Bovine serum	Detection of antibodies to <i>Mycobacterium bovis</i>	BAC0398 IDEXX Mycobacterium bovis Antibody Test ELISA Kit	STA
Serum	<i>Mycoplasma</i> <i>M. mycoides</i> Capri / <i>M. capricolum</i>	BA.269 by Complement Fixation Test	LSW
	<i>Mycoplasma mycoides mycoides</i> SC <i>M. capripneumoniae</i>	BA.270 by Complement Fixation Test	LSW
	<i>Mycoplasma agalactiae</i>	BA.275 by in-house ELISA - Imported samples only	LSW
Serum	<i>Mycoplasma gallisepticum</i> <i>M. meleagridis</i> <i>M. synoviae</i>	SE.075 by rapid slide agglutination	LSW, LAS
	Detection of antibodies to exotic mycoplasmas	BAC0023 by immunoblot	BAC5
	<i>Mycobacterium paratuberculosis</i>	SE.064 by Complement Fixation Test	LSW
	<i>Burkholderia (Pseudomonas) mallei</i>	SE.060 by Complement Fixation Test	LSW
Bovine, caprine and ovine sera	Equine rhinopneumonitis	SE.065 by complement fixation	LSW
	<i>Actinobacillus pleuropneumoniae</i> , types 2, 3, 6 and 8	SE.071 by complement fixation	LSW



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TISSUES AND BIOLOGICAL FLUIDS AS SPECIFIED (cont'd)	SEROLOGY (cont'd)	Documented In-house Standard Operating Procedures (SOP's)	
Bovine, caprine and ovine sera (cont'd)	<i>Haemophilus somnus</i>	SE.073 by complement fixation	LSW
	<i>Salmonella pullorum/gallinarum</i>	1) SE.091 by rapid slide agglutination	LSW
		2) SE.093 by tube agglutination	LSW
	<i>Salmonella abortus ovis</i> <i>S. typhimurium</i> <i>S. abortus equi</i> <i>S. enteritidis</i> Group c <i>S. enteritidis</i> <i>S. dublin</i>	SE.068 by serum agglutination	LSW
Serum	Detection of: <i>Trypanosoma equiperdum</i>	1) SE.095 by complement fixation	LSW
		2) PA.058 by indirect fluorescent antibody	LSW
	<i>Dictylocaulis viviparus</i>	PA.052 by in-house ELISA	LSW
	<i>Theileria equi</i> & <i>Babesia caballi</i> (Piroplasmosis)	PA.054 by indirect fluorescent antibody	LSW
	<i>Babesia canis</i>	PA.141 by indirect fluorescent antibody	
	<i>Ehrlichia canis</i>	PA.059 by indirect fluorescent antibody	LSW
(Canine Serum)	<i>Dirofilaria immitis</i> (Heartworm)	PA.062 antigen detection by ELISA (IDEXX kit)	LSW
(and foetal fluids)	Porcine parvovirus	VI.006 by haemagglutination inhibition	LSW



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TISSUES AND BIOLOGICAL FLUIDS AS SPECIFIED (cont'd)	SEROLOGY (cont'd)	Documented In-house Standard Operating Procedures (SOP's)	
Serum (cont'd)	Detection of: (cont'd)		
	Porcine reproductive and respiratory syndrome	1) VI.040 using ELISA (IDEXX PRRS kit)	LSW
		2) VI.103 using immuno-peroxidase monolayer assay	LSW
	Equine viral arteritis antibody detection (screening test)	VI.056 using serum neutralisation	LSW
	Bovine herpes mammillitis	VI.084 using serum neutralisation	LSW
	Talfan/Teschen	VI.086 using serum neutralisation	LSW
	Haemagglutinating encephalomyelitis (porcine)	VI.087 using serum neutralisation	LSW
	Transmissible gastroenteritis/porcine respiratory coronavirus	1) VI.088 using serum neutralisation	LSW
		2) VI.091 using Ingenasa differential blocking ELISA	LSW
	Classical Swine Fever Virus (CSFV) antigen	SE.203 using IDEXX Herdchek ELISA	LSW
	Deer herpes virus	VI.107 using serum neutralisation	LSW
	Encephalomyocarditis virus	VI.108 using serum neutralisation	LSW
	Aujeszky's disease	1) 1) VI.114 using ELISA (gB) Svanova ADV gB kit	LSW
		2) 2) VI.113 using ELISA (gE) IDEXX PRV/ADV kit (Confirmation)	LSW



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TISSUES AND BIOLOGICAL FLUIDS AS SPECIFIED (cont'd)	SEROLOGY (cont'd)	Documented In-house Standard Operating Procedures (SOP's)	
Serum (cont'd)	Detection of: (cont'd)		
	Equine infectious anaemia	VI.120 by agar gel immunodiffusion	LSW
		1) Synbiotic Lab-EZ/EIA AGIDT kit (existing kit) 2) ID. Vet AGIDT kit 3) VMRD AGIDT kit	
	Avian influenza virus antibody	VI.322 by AGIDT	VI6
	Avian reticuloendotheliosis virus	VI.225 by ELISA IDEXX REV AB kit	LAS
Serum	Big liver and spleen antibody	SE.144 by AGIDT	LAS
Serum, Avian	Antibodies to Egg Drop Syndrome virus, IBV virus, Paramyxoviruses or Orthomyxovirus	VI.441, by HAIT	VI6, LAS, LSW
Serum, Bovine	<i>Leptospira hardjo</i> antibodies	SE.227 by indirect ELISA (Prionics)	LSW
	Bovine Virus Diarrhoea (BVD) Antibody	VI.092 by serum neutralisation	LSW
Serum, Ruminant (Bovine and Ovine)	Antibodies to Bluetongue Virus	SE.190 by IDVET ELISA confirmation	LSW
Serum and Plasma, Bovine	Infectious Bovine Rhinotracheitis Virus (BHV1) Detection of: (cont'd)	SE.226 by IDEXX IBRgB competitive ELISA	LSW
Serum and Egg Albumin	Avian leukosis virus antibody and antigen	VI.221 (antibody) and VI.222 (antigen) by IDEXX ELISA	LAS
Serum and Other Body Fluids	<i>Leptospira</i> multiple serovar pool, single pool (pool of 1, 2, 3, 4, 5 and 6) and single serovar	BA.272 by microscopic agglutination	LSW



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TISSUES AND BIOLOGICAL FLUIDS AS SPECIFIED (cont'd)	SEROLOGY (cont'd)	Documented In-house Standard Operating Procedures (SOP's)	
Serum and Other Body Fluids (cont'd)	Detection of: (cont'd)		
	<i>Leptospira</i> antibodies - multiple serovars: a) <i>L. canicola, copenhageni, baum</i> b) <i>L. pomona, mozdoci, tarassovi, grip</i> c) <i>L. australis, bratislava, autumnalis</i> d) <i>L. hebdomadis, mini, sejroe</i> e) <i>L. javanica, bataviae, zannoni</i> f) <i>L. hardjo prajitno, & hardjo bovis</i>	BA.272 by microscopic agglutination	LSW
Serum	Classical Swine Fever Virus	VI.096 Classical Swine Fever virus Antibody Detection by Enzyme Linked Immunosorbent Assay (ELISA) using IDXX ELISA kit or Prionics ELISA kit.	LSW
Serum and Other Body Fluids	<i>Leptospira</i> antibodies - single serovars: <i>L. australis</i> <i>L. autumnalis</i> <i>L. ballum</i> <i>L. bataviae</i> <i>L. Bratislava</i> <i>L. canicola</i> <i>L. copenhageni</i> <i>L. grippotyphosa</i> <i>L. hardjo bovis</i> <i>L. hebdomadis</i> <i>L. icterohaemorrhagiae</i> <i>L. javanica</i> <i>L. mini</i> <i>L. mozdoci</i> <i>L. Pomona</i> <i>L. tarassovi</i> <i>L. zannoni</i> <i>L. sejroe</i> <i>L. prajitno</i> <i>L. poi</i>	BA.273 by MAT	LSW



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TISSUES AND BIOLOGICAL FLUIDS AS SPECIFIED (cont'd)	SEROLOGY (cont'd)	Documented In-house Standard Operating Procedures (SOP's)	
	Detection of: (cont'd)		
Serum (cattle, sheep, goats and pigs)	<i>Brucella</i> antibodies	BAC0014 by in-house ELISA (competitive)	LSW, BAC5
Serum, Equine	Antibodies to <i>Theileria. equi</i> and <i>Babesia caballi</i> (Piroplasmosis)	SE.228 by competitive ELISA VMRD kit	LSW
Serum, Porcine	Classical Swine Fever antibodies	VI.452, by neutralisation of viruses and cytopathogenicity testing in tissue culture	VI5
Serum, Porcine	Detection of <i>Mycoplasma hyopneumoniae</i>	SE.046 antibody detection by IDEXX ELISA kit	LSW
Serum, plasma, ear tissue and Whole blood	Detection of Bovine Viral Diarrhoea Virus (BVDV) antigen	SE.199 using IDEXX HerdCheck BVDV antigen ELISA	LSW
Serum, Caprine and Ovine	Detection of antibodies to caprine arthritis encephalitis virus (CAEV) or Maedi-visna virus (MVV).	SE.241 by VMRD cELISA	LSW
Serum and plasma, Porcine	Detection of antibodies to Swine Vesicular Disease Virus (SVDV) SE.236 by PrioCHECK cELISA	SE.236 by PrioCHECK cELISA	LSW
Serum, Bovine, Caprine and	Ovine Detection of antibodies to <i>Coxiella burnetii</i> (Q Fever)	SE.201 by PrioCHECK indirect ELISA	LSW
Blood and serum, cloven-hoofed animals	Detection of antibodies to Foot and Mouth Disease (FMDV) serotype specific antibodies to ASIA 1, Type A and Type O	SE.252 by PrioCHECK blocking ELISA	LSW
	Detection of antibodies to structural proteins of Foot and Mouth Disease (FMDV)	SE.148 by in-house Solid Phase Competition ELISA (SPCE)	LSW
	Detection of antibodies to nonstructural proteins of Foot and Mouth Disease (FMDV)	SE.251 by NSP ELISA using the PrioCHECK or IDvet Kits	LSW



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TISSUES AND BIOLOGICAL FLUIDS AS SPECIFIED (cont'd) Serum, Bovine and small ruminants Serum, canine and equine	SEROLOGY (cont'd) Detection of antibodies to <i>Mycobacterium avium</i> spp <i>paratuberculosis</i> (MAP) Detection of antibodies to <i>Trypanosoma evansi</i>	Documented In-house Standard Operating Procedures (SOP's) BA.274 by IDEXX ELISA PA.083 Card agglutination test (CATT)	 LSW LSW
TISSUES AND BIOLOGICAL FLUIDS AS SPECIFIED Avian Tissue and Body Fluids Avian Tissue and Body Fluids Bovine Serum Bovine Serum Bovine Serum Brain Tissue	VIROLOGY Detection of Avian Influenza virus Detection of Newcastle Disease virus Isolation and detection of viruses Detection of Infectious Bovine Rhinotracheitis (IBR) virus Detection of Parainfluenza 3 Virus (PI3) Detection of Respiratory Syncytial Virus (RSV) Detection of Rabies	Documented In-house Standard Operating Procedures (SOPs) VI.437, pathogenicity test VI.438, pathogenicity test 1) VI.443, by cell culture 2) VI.444, by inoculation of the allantoic cavity of embryonated eggs 3) VI.318, by inoculation of embryonated eggs using the chorio-allantoic membrane route 1) VI.085 by serum neutralisation (24 hr) 2) VI.035 by ELISA IDEXX Chekit TrachiTest kit VI.037 by in-house ELISA VI.036 by in-house ELISA VIR0190, by fluorescence microscopy	 VI6 VI6 VI6 VI6 VI6 LSW LSW LSW LSW VI1



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TISSUES AND BIOLOGICAL FLUIDS AS SPECIFIED (cont'd)	VIROLOGY (cont'd)	Documented In-house Standard Operating Procedures (SOPs)	
Equine Semen	Isolation and detection of Equine Viral Arteritis (EVA) virus (confirmatory test)	VI.485, by cell culture and immunoperoxidase (IPX) staining	VI5
Haemagglutinating Avian Influenza Virus Isolates	Determination of N type	VI.446, by neuraminidase inhibition test	VI6
Porcine Tissues	Isolation and detection of Pestiviruses	VI.449 strain typing, isolation and detection of Classical Swine Fever (CSF) virus isolation by cell culture	VI5
Porcine Tissues	Isolation and detection of Porcine Teschovirus Encephalomyelitis virus (Teschov/Talfan)	VI.531 by cell culture and immunoperoxidase (IPX) staining based on OIE method	VI5
Porcine Tissues, Fluids and Swabs	Isolation of Aujeszky's disease virus	VI.511 by cell culture and immunoperoxidase (IPX) staining based on OIE method	VI5
Semen	Detection of Bovine Viral Diarrhoea virus	VI.117 isolation and Immunoperoxidase (IPX) staining	LSW
Tissues and Body Fluids	Isolation and detection of Rabies virus	VIR0178, by tissue culture and fluorescence microscopy	VI1
Virus Isolates	Detection and identification of Mammalian Influenza Virus	VIR0206 Haemagglutination inhibition	LSW, VI6
		VI.446 Neuraminidase inhibition	VI6
Equine Serum and Whole Blood	Detection of IgG antibody	VI.687 West Nile Total Antibody Detection by IDVET competition ELISA	VI2
Equine Serum and Whole Blood	Detection of IgM antibody	VI.688 Detection of West Nile Virus IgM antibody by IDVET capture ELISA	VI2



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Schedule of Accreditation
issued by
United Kingdom Accreditation Service
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Animal and Plant Health Agency

Issue No: 149 Issued:

Testing performed by the Organisation at the locations specified

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
RESULTS OF DIAGNOSTIC TESTS AND POST MORTEM EXAMINATIONS, as detailed in this Schedule	OPINIONS AND INTERPRETATIONS Diagnosis for the control and prevention of disease in farm animals, either single or multiple	Documented In-house procedures	
END			