


# Schedule of Accreditation

issued by

## United Kingdom Accreditation Service

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

 <p><b>1769</b> Accredited to <b>ISO/IEC 17025:2017</b></p>	<b>Animal and Plant Health Agency</b> <b>Issue No: 132 Issue date: 25 March 2022</b>	
	<p><b>Woodham Lane</b> <b>New Haw</b> <b>Addlestone</b> <b>Weybridge</b> <b>Surrey</b> <b>KT15 3NB</b></p>	<p><b>Contact: Ms Janice Simm</b> <b>Tel: + +44 (0) 2080264775</b> <b>Fax: +44 (0) 1845 525224</b> <b>E-Mail: Janice.simm@apha.gov.uk</b> <b>Website: www.gov.uk/apha</b></p>

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
<p><b>Address</b>                      APHA Bury St Edmunds                      Veterinary Investigation Centre                      Rougham Hill                      Bury St Edmunds                      Suffolk                      IP33 2RX</p> <p><b>Local contact</b>                      Mrs T Carson                      Tel: +44 (0)3000600018</p>	<p><u>Testing:</u>                      PM examination with associated staining and worm count</p> <p><u>Sampling:</u>                      Necropsy procedures</p>	BUR
<p><b>Address</b>                      APHA Carmarthen Veterinary                      Investigation Centre                      Job's Well Road                      Johnstown                      Carmarthen                      Carmarthenshire                      SA31 3EZ</p> <p><b>Local contact</b>                      Mr Simon Marshall                      Tel: +44 (0)3000600016</p>	<p><u>Testing:</u>                      Parasitology,                      PM examination with associated staining and worm count,                      Immunology                      Bacteriology</p> <p><u>Sampling:</u>                      Necropsy procedures</p>	CAR
<p><b>Address</b>                      APHA Lasswade Laboratory                      Pentlands Science Park                      Bush Loan                      Penicuik                      Midlothian                      E26 0PZ</p> <p><b>Local contact</b>                      Mr C Donnelly                      Tel: +44 (0)1314456169</p>	<p><u>Testing:</u>                      Serology,                      Avian PM examination</p> <p><u>Sampling:</u>                      Avian necropsy procedures</p>	LAS
<p><b>Address</b>                      APHA Newcastle Veterinary                      Investigation Centre                      Whitley Road                      Longbenton                      Newcastle-upon-Tyne                      NE12 9SE</p> <p><b>Local contact</b>                      Ms K Henderson                      Tel: +44 (0)3003038269</p>	<p><u>Testing:</u>                      Bacteriology, Serology,                      Microscopy, Immunology,                      Compost Testing</p> <p><u>Support Functions:</u>                      Preparation, validation and supply of culture media</p>	NEW



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<p><b>Address</b> APHA Penrith Veterinary Investigation Centre Merrythought Calthwaite Penrith Cumbria CA11 9RR</p> <p><b>Local contact</b> Mrs N Stamper Tel: +44 (0)3000600012</p>	<p><u>Testing:</u> Bacteriology, Molecular Biology, Mycology, Parasitology, Serology, Virology, PM examination</p> <p><u>Sampling:</u> Necropsy procedures Fitness for purpose checks of latex streptococcal grouping kit. Internal Quality Control of API ID kits</p>	PEN
<p><b>Address</b> APHA Quality Assurance Unit College Road Sutton Bonington Loughborough Leicestershire LE12 5RB</p> <p><b>Local contact</b> Ms P Johnson  Tel: +44 (0)3000600003</p>	<p><u>Support Functions</u> Supply of control cultures and reagents</p>	QAU
<p><b>Address</b> APHA Shrewsbury Veterinary Investigation Centre Kendal Road Harlescott Shrewsbury Shropshire SY1 4HD</p> <p><b>Local contact</b> Mrs T Carson  Tel: +44 (0)3000600023</p>	<p><u>Testing:</u> PM examination with associated staining and worm count</p> <p><u>Sampling:</u> Necropsy procedures</p>	SHR



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Location details	Activity	Location code
<p><b>Address</b> APHA Starcross Veterinary Investigation Centre Staplake Mount Starcross Devon EX6 8PE</p> <p><b>Local contact</b> Miss Jo Mayers Tel: +44 (0)3000600020</p>	<p><u>Testing:</u> Bacteriology, Mycology, Parasitology, Virology, PM examination</p> <p><u>Sampling:</u> Necropsy procedures</p> <p><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</p> <p>Validation and supply of antisera and control slides for swine dysentery (<i>Brachyspira</i>) FAT Preparation and validation of conjugate for <i>Streptococcus suis</i> FAT</p>	<p>STA</p>
<p><b>Address</b> APHA Thirsk Veterinary Investigation Centre West House Station Road Thirsk North Yorkshire YO7 1PZ</p> <p><b>Local contact</b> Mrs T Carson Tel: +44 (0)3000600098</p>	<p><u>Testing:</u> PM examination with associated staining and worm count Immunology</p> <p><u>Sampling:</u> Necropsy procedures</p>	<p>THI</p>
<p><b>Address</b> APHA Weybridge Laboratory Services Department Woodham Lane New Haw Addlestone Surrey KT15 3NB</p> <p><b>Local contact</b> Mr Richard Lukey Tel: +44 (0)2084152109</p>	<p><u>Testing:</u> Bacteriology, Bacteriology (Mycobacteria) Molecular Biology, Serology, Virology</p> <p><u>Support Functions:</u> TB media QC</p>	<p>LSW</p>
<p><b>Address</b> APHA York SandHutton YO41 1LZ</p> <p><b>Local Contact</b> Dr Julie Lane Tel: + (0)2080262459</p>	<p><u>Testing</u> Parasitology</p>	<p>YOR</p>



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Location details	Activity	Location code
<p><b>Address</b> APHA Weybridge Pathology and Animal Sciences Department Woodham Lane New Haw Addlestone Surrey KT15 3NB</p> <p><b>Local contact</b> Mrs Cathy Hughes  Tel +44 (0)2080269504</p>	<p><u>Testing:</u> Histology TSE Western Blot Microscopy Disinfection testing</p>	PATH
<p><b>Address</b> APHA Weybridge Quality Services Woodham Lane New Haw Addlestone Surrey KT15 3NB</p> <p><b>Local contact</b> Ms Janice Simm Tel: +44 (0)2080264775</p>	<p><u>Support Functions:</u> Group auditing, advice and consultancy  Maintenance of Group Suppliers list</p>	QS
<p><b>Address</b> APHA Weybridge Department of Bacteriology Woodham Lane New Haw Addlestone Surrey KT15 3NB</p> <p><b>Local contact</b> Mr G Barden  Tel: +44 (0)2080269652</p>	<p><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</p>	BAC2, BAC3, BAC5
<p><b>Address</b> APHA- Weybridge Virology Department Woodham Lane New Haw Addlestone Surrey KT15 3NB</p> <p><b>Local contact</b> Ms Sally Woods Tel: + 44 (0)2084152138</p>	<p><u>Testing:</u> Virology, Molecular biology</p>	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	<b>BACTERIOLOGY</b>	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
	c) Isolation from animal tissues and fluids	c) BA.002	PEN, STA BAC5



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	<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	Detection of <i>Brachyspira</i> spp	BA.048 by IFAT	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
Badger Tissues and Body Fluids	Isolation of <i>Mycobacterium</i> spp	TB Diagnosis BA. 608, BA.609, BA.610,BA.611	STA
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	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
Processed Animal Protein Samples and Compost and Biogas	<u>Detection</u> <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
Faecal Samples	Isolation of <i>Yersinia enterocolitica</i>	BA.103 by culture methods	PEN
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	PEN, 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, BURY
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, BAC0172, 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	PEN, 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	PEN, BAC2



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	<u>Testing</u> (cont'd)		
Salmonella Cultures	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,BURY, SHR
Mycoplasma Cultures	Identification of species	BAC0068	BAC5
Animal tissues	Detection of Mycobacteria	TB Diagnosis BA. 608, BA.609, BA.610,BA.611 using the Mycobacteria Growth Indicator Tubes (MGIT) in conjunction with and 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 $\beta$ - 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 based on BS 6734:1986 and BS 6734:2004	PATH
	Determination of the effective disinfectant concentration range for Newcastle Disease Virus	QCU0482 using bioassay and a known virus concentration	PATH
TISSUE AS SPECIFIED	<b>HISTOLOGY</b>	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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<p>TISSUE AS SPECIFIED</p> <p>Bovine Plasma</p>	<p><b>IMMUNOLOGY</b></p> <p>Detection of gamma interferon (IFN-<math>\gamma</math>) in whole blood culture supernatants</p>	<p>Documented In-house Standard Operating Procedures (SOPs)</p> <p>BAC0099, BAC0100 and supported by BAC0266 using Bovigam Gamma ELISA kit.</p>	<p>NEW, CAR, THI</p>
<p>ANIMAL FEED, TISSUES, BIOLOGICAL FLUIDS AND MICROBIAL CULTURES AS SPECIFIED</p> <p>Animal tissues, swabs, pooled swabs, whole blood, cell supernatants, semen, serum, bulk milk and bacterial cultures</p>	<p><b>MOLECULAR BIOLOGY</b></p> <p>Detection and/or identification of veterinary DNA or RNA</p>	<p>GP.027 Flexible and Fixed Scope Accreditation Management supported by AP.56 (APHA Test Management)</p> <p>Methods developed and validated using endpoint PCR with gel analysis of products and real Time PCR using manual or robotic extraction and test kits</p>	<p>Sites with relevant fixed scopes</p>
<p>Newcastle Disease Virus Isolate</p>	<p>Nucleotide Sequencing</p>	<p>VI.448 plus supporting SOPs, by RT-PCR</p>	<p>VI6</p>
<p>Avian Influenza H5 and H7 isolates</p>	<p>Nucleotide Sequencing</p>	<p>VI.545 plus supporting SOPs, by RT-PCR using Stratagene MX3000/4000 or AriaMX instrumentation.</p>	<p>VI6</p>
<p>Avian Tissues, Swabs and Fluids</p>	<p>Detection of H5 Eurasian influenza virus gene (screening test)</p>	<p>VI.492 real time RT PCR using Stratagene MX 3000/4000 or AriaMX instrumentation</p>	<p>VI6</p>
<p>Avian Tissues, Swabs and Fluids</p>	<p>Detection of viruses of subtype N8 avian influenza virus (AIV)</p>	<p>VI.684 Reverse transcription Realtime (RRT-) PCR using Stratagene MX3000/4000 or AriaMX instrumentation for the detection of avian influenza viruses of subtype N8</p>	<p>VI6</p>



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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
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, LSW



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ANIMAL FEED, TISSUES, BIOLOGICAL FLUIDS AND MICROBIAL CULTURES AS SPECIFIED (cont'd)	<b>MOLECULAR BIOLOGY</b>	Documented In-house Standard Operating Procedures (SOPs)	
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
Porcine tissues and nasal swabs	Detection of A(H1N1) pdm09	VI.447 by H1-118 real time Taqman reverse transcriptase PCR supported by screening method VI.568	VI6
Bovine, Blood and Tissues	Detection of proviral bovine Leukaemia virus env gene (EBL) (screening test)	VI.454 PCR and gel Visualisation based on OIE method	VI5
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
Animal Tissues, Whole Blood (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 Stratagne MX3000P for PCR	PEN
Animal Tissues, Whole Blood (single) and bulk milk	Border Disease Virus (BDV) RNA	MB.004, by real time Taqman nested RT-PCR using Applied Biosystems MagMAX Express 96 and Stratagne MX3000P for PCR	PEN



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Brain and Central Nervous Tissues, Cattle and Sheep (fresh or frozen)	Detection of abnormal prion protein PrP <sup>Res</sup>	SE.198, by Bio-Rad TeSeE Western Blot kit	PATH
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	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	VIR0179 plus supporting SOPs, by RT-PCR and gel electrophoresis	VI1
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



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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	VI5
<i>Salmonella</i> 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
<i>Mycobacterium bovis</i> cultures	Spoligotyping of <i>Mycobacterium tuberculosis</i> complex	CBU0245, supported by CBU0250	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
<i>Brucella</i> spp cultures	Confirmation of <i>Brucella</i> spp. culture material	BAC0416 Quantitative PCR for the confirmation of <i>Brucella</i> spp. culture material	BAC5
Pooled Swabs	Detection of <i>Taylorella equigenitalis</i>	SOP MB.012 in clinical swabs by real time PCR	PEN





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HUMAN BODY FLUIDS  Human and animal nose and throat swabs in VTM	<u>Molecular examination activities for the purpose of clinical diagnosis</u>  Detection of SARS-CoV-2 RNA Targets: E-gene and RdRp gene	VI.733 plus 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  Microbial Cultures  Skin	<b>MYCOLOGY</b>  Detection of <i>Dermatophilus</i> sp  Isolation and identification of <i>Dermatophilus congolensis</i>	Documented In-house Standard Operating Procedures (SOP's)  BA.034 using Methylene blue stain  MY.006 culture supported by BA.034 Methylene Blue staining	PEN, STA.  PEN, STA.
ANIMALS, TISSUES AND BIOLOGICAL FLUIDS AS SPECIFIED  Blood  Faeces/Gastro-intestinal Contents  Faeces/Gastro-intestinal Contents	<b>PARASITOLOGY</b>  Detection of <i>Babesia gibsoni</i>  Detection of <i>Dirofilaria immitis</i> microfilariae (Canine and Feline Heartworm)  Detection of <i>Cryptosporidium</i>  Detection of Lungworm larvae  Estimation of Nematode egg and coccidial oocytes load  Detection of Fluke eggs  Composite worm egg count	Documented In-house Standard Operating Procedures (SOP's)  PAR0005 by Giemsa stain  PAR0081 by filtration  PA.001 by modified Ziehl-Neelsen stain  PA.008 using the Baermann technique  PA.011 by improved modified McMaster technique  PA.026 by sedimentation  PA.070 for monitoring	LSW  CAR  PEN, CAR, STA.  CAR  CAR, PEN, STA, THI, BUR, SHR  CAR  CAR



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ANIMALS, TISSUES AND BIOLOGICAL FLUIDS AS SPECIFIED (cont'd)	<b>PARASITOLOGY</b> (cont'd)	Documented In-house Standard Operating Procedures (SOP's)	
Ruminant Alimentary Tract	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
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
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	<b>POST MORTEM</b>	Documented In-house Standard Operating Procedures (SOP's)	
Mammalian, Avian and Fish Species	<u>Sampling and Examination</u> 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	<b>SEROLOGY</b>		
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	Sites specified for fixed scope ELISA tests
Bovine Serum	Detection of <i>Mycoplasma bovis</i>	BAC0112 by ELISA	LSW, BAC5
Serum or plasma	Detection of antibodies to BVD virus (BVDV) from infected bovine sera	SE.233 Bovine Viral Diarrhoea Virus (BVDV) by IDEXX HerdCheck BVDV Ab ELISA	LSW
Clostridium perfringens Intestinal Contents from farmed animal species	Detection of alpha, beta and epsilon toxins of <i>Clostridium perfringens</i>	SE.189 by ELISA- Bio-X Diagonitscs kit (BIO K 270)	NEW
Milk	Detection of antibodies to <i>Brucella abortus</i>	BAC0021 by ELISA (indirect)	,LSW BAC5
Milk, bovine (individual or bulk samples)	Detection of antibodies to Bovine Rhinotracheitis virus	VI.052 by ELISA (IDEXX Pourquier kit)	LSW
Milk, bovine (individual or bulk samples)	Detection of <i>Leptospira hardjo</i> antibodies	SE.177 by indirect ELISA (Prionics)	LSW



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Milk, bovine (individual or bulk samples)	Detection of antibodies to bovine viral diarrhoea (BVD)	SE.234 by ELISA (SVANOVA)	LSW
Serum	Detection of antibodies to Enzootic Bovine Leucosis Virus	1) SE.003 using indirect IDEXX ELISA 2) VI.119 by agar gel Immunodiffusion (AGIDT) using IDEXX kit	LSW 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 agar gel immunodiffusion precipitin test	LSW
	<i>Brucella abortus/melitensis/suis</i> , screening	BA.010 using Rose Bengal Plate Test	, LSW, PEN, STA, BAC5
	Detection of:		
	<i>Brucella abortus/melitensis/suis</i>	1) BA.265 by serum agglutination	LSW
		2) BA.266 by complement fixation	LSW
		3) BA.199 by in-house ELISA	LSW
	<i>Brucella ovis</i>	BA.267 by complement fixation	LSW
	<i>Brucella canis</i>	1) BA.268 by serum agglutination	LSW
		2) SE.069 by rapid slide agglutination	LSW
	<i>Erysipelas</i>	BA.125 using microtitre serum agglutination test	LSW



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TISSUES AND BIOLOGICAL FLUIDS AS SPECIFIED (cont'd)	<b>SEROLOGY (cont'd)</b>	Documented In-house Standard Operating Procedures (SOP's)	
	Serum	<i>Mycoplasma</i> <i>M. mycoides Capri /</i> <i>M. capricolum</i>	BA.269 by complement fixation LSW
		<i>Mycoplasma mycoides mycoides SC</i> <i>M. capripneumoniae</i>	BA.270 by complement fixation LSW
		<i>Mycoplasma agalactiae</i>	BA.275 by in-house ELISA - Imported samples only LSW
		<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 LSW
		<i>Burkholderia (pseudomonas) mallei</i>	SE.060 by complement fixation 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
<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	



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TISSUES AND BIOLOGICAL FLUIDS AS SPECIFIED (cont'd)  Serum           (and foetal fluids)           Serum	<b>SEROLOGY</b> (cont'd)  Detection of:  <i>Trypanosoma equiperdum</i>   <i>Theileria equi</i> / <i>B. caballi</i> (Piroplasmosis)  <i>Dictylocaulis viviparus</i>  <i>Babesia. canis</i> <i>Theileria equi</i> / <i>Babesia caballi</i> (Piroplasmosis)  <i>Ehrlichia canis</i>  <i>Hypoderma bovis/lineatum</i>  <i>Dirofilaria immitis</i> (Heartworm)  Porcine parvovirus  Porcine reproductive and respiratory syndrome  Equine viral arteritis antibody detection (screening test)  Bovine herpes mammillitis  Talfan/Teschen	Documented In-house Standard Operating Procedures (SOP's)  1) SE.095 by complement fixation  2) PA.058 by indirect fluorescent antibody  PA.042 by complement fixation  PA.052 by in-house ELISA  PA.054 by indirect fluorescent antibody  PA.059 by indirect fluorescent antibody  1) PA.060, survey samples using in-house ELISA  2) PA.040 by competitive in-house ELISA  PA.062 antigen detection by ELISA (IDEXX kit)  VI.006 by haemagglutination inhibition  1) VI.040 using ELISA (IDEXX PRRS kit)  2) VI.103 using immuno-peroxidase monolayer assay  VI.056 using serum neutralisation  VI.084 using serum neutralisation  VI.086 using serum neutralisation	LSW  LSW  LSW  LSW  LSW  LSW  LSW  LSW  LSW  LSW  LSW  LSW



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TISSUES AND BIOLOGICAL FLUIDS AS SPECIFIED (cont'd)	<b>SEROLOGY</b> (cont'd)	Documented In-house Standard Operating Procedures (SOP's)	
	Detection of:		
	Haemagglutinating encephalomyelitis (porcine)	VI.087 using serum neutralisation	LSW
	Transmissible gastroenteritis/porcine respiratory coronavirus	1) VI.088 using serum neutralisation 2) VI.091 using Ingenasa differential blocking ELISA	LSW 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
	Porcine epidemic diarrhoea	VI.110 using in-house ELISA	LSW
	Aujeszky's disease	1) VI.113 using ELISA (gE) IDEXX PRIV/ADV kit 2) VI.114 using ELISA (gB) Svanova ADV gB kit	LSW LSW
	Equine infectious anaemia	VI.120 by agar gel immunodiffusion 1) Synbiotic Lab-EZ/EIA AGIDT kit (existing kit) 2) ID. Vet AGIDT kit 3) VMRD AGIDT kit	LSW
	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



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<p>TISSUES AND BIOLOGICAL FLUIDS AS SPECIFIED (cont'd)</p> <p>Serum, Avian</p> <p>Serum, Bovine</p>	<p><b>SEROLOGY</b> (cont'd)</p> <p>Detection of:</p> <p>Antibodies to Egg Drop Syndrome virus, IBV virus, Paramyxoviruses or Orthomyxovirus</p> <p><i>Leptospira hardjo</i> antibodies</p> <p>Bovine Virus Diarrhoea (BVD) Antibody</p>	<p>Documented In-house Standard Operating Procedures (SOP's)</p> <p>VI.441, by HAIT</p> <p>SE.227 by indirect ELISA (Prionics)</p> <p>VI.092 by serum neutralisation</p>	<p>VI6, LAS, LSW</p> <p>LSW</p> <p>LSW</p>
<p>Serum, Ruminant (Bovine and Ovine)</p> <p>Serum and Plasma, Bovine</p> <p>Serum and Egg Albumin</p> <p>Serum and Other Body Fluids</p>	<p>Antibodies to Bluetongue Virus</p> <p>Infectious Bovine Rhinotracheitis Virus (BHV1) Detection of: (cont'd)</p> <p>Avian leukosis virus antibody and antigen</p> <p><i>Leptospira</i> multiple serovar pool, single pool (pool of 1, 2, 3, 4, 5 and 6) and single serovar</p> <p><i>Leptospira</i> antibodies - multiple serovars:</p> <p>a) <i>L. canicola, copenhageni, bauum</i></p> <p>b) <i>L. pomona, mozdoci, tarassovi, grip</i></p> <p>c) <i>L. australis, bratislava, autumnalis</i></p> <p>d) <i>L. hebdomadis, mini, sejroe</i></p> <p>e) <i>L. javinica, bataviae, zanoni</i></p> <p>f) <i>L. hardjo prajitno, &amp; hardjo bovis</i></p>	<p>SE.190 by IDVET ELISA confirmation</p> <p>SE.226 by IDEXX IBRgB competitive ELISA</p> <p>VI.221 (antibody) and VI.222 (antigen) by IDEXX ELISA</p> <p>BA.272 by microscopic agglutination</p> <p>BA.272 by microscopic agglutination</p>	<p>LSW</p> <p>LSW</p> <p>LAS</p> <p>LSW</p> <p>LSW</p>





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TISSUES AND BIOLOGICAL FLUIDS AS SPECIFIED (cont'd)	<b>SEROLOGY</b> (cont'd)	Documented In-house Standard Operating Procedures (SOP's)	
Serum	Detection of:  Classical Swine Fever Virus	VI.096 Classical Swine Fever virus Antibody Detection by Enzyme Linked Immunosorbent Assay (ELISA) using IDEXX ELISA kit or Prionics ELISA kit.	LSW
Serum and Other Body Fluids (cont'd)	<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. mozdoc</i> <i>L. Pomona</i> <i>L. tarassovi</i> <i>L. zanoni</i> <i>L.sejroe</i> <i>L.prajitno</i> <i>L.poi</i>	BA.273 by MAT	LSW
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> , detection of	SE.046 antibody detection by IDEXX ELISA kit	LSW



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TISSUES AND BIOLOGICAL FLUIDS AS SPECIFIED (cont'd)	<b>SEROLOGY</b> (cont'd)	Documented In-house Standard Operating Procedures (SOP's)	
Serum, plasma, ear tissue and Whole blood	Detection of:  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 Coxiella burnetii (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
Serum, Bovine and small ruminants	Detection of antibodies to Mycobacterium avium spp paratuberculosis (MAP)	BA.274 by IDEXX ELISA	LSW



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Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
TISSUES AND BIOLOGICAL FLUIDS AS SPECIFIED (cont'd)	<b>VIROLOGY</b>	Documented In-house Standard Operating Procedures (SOPs)	
Avian Tissue and Body Fluids	Detection of Avian Influenza virus	VI.437, pathogenicity test	VI6
	Detection of Newcastle Disease virus	VI.438, pathogenicity test	VI6
Avian Tissue and Body Fluids	Isolation and detection of viruses	1) VI.443, by cell culture	VI6
		2) VI.444, by inoculation of the allantoic cavity of embryonated eggs	VI6
		3) VI.318, by inoculation of embryonated eggs using the chorio-allantoic membrane route	VI6
Bovine Serum	Detection of Infectious Bovine Rhinotracheitis (IBR) virus	1) VI.085 by serum neutralisation (24 hr)	LSW
		2) VI.035 by ELISA IDEXX Chekit TrachiTest kit	LSW
Bovine Serum	Detection of Parainfluenza 3 Virus (PI3)	VI.037 by in-house ELISA	LSW
Bovine Serum	Detection of Respiratory Syncytial Virus (RSV)	VI.036 by in-house ELISA	LSW
Brain Tissue	Detection of Rabies	VIR0190, by fluorescence microscopy	VI1



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Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
TISSUES AND BIOLOGICAL FLUIDS AS SPECIFIED (cont'd)	<b>VIROLOGY</b> (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 (Teschen/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	VI6, LSW
		VI.446 Neuraminidase inhibition	VI6
		VIR0272 Virus isolation	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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RESULTS OF DIAGNOSTIC TESTS AND POST MORTEM EXAMINATIONS, as detailed in this Schedule	<b>OPINIONS AND INTERPRETATIONS</b> Diagnosis for the control and prevention of disease in farm animals, either single or multiple	Documented In-house procedures	
END			