

# Schedule of Accreditation

issued by

## United Kingdom Accreditation Service

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

|  |  |   |
|--|--|---|
|  <p><b>7624</b></p> <p>Accredited to<br/>ISO/IEC 17025:2017</p> | <p><b>SAC Commercial Ltd, also trading as Capital Diagnostics</b></p> <p>Issue No: 048    Issue date: 02 December 2021</p>   |   |
|  | <p><b>Veterinary and Analytical Laboratory</b><br/> <b>Pentlands Science Park</b><br/> <b>Bush Loan</b><br/> <b>Penicuik</b><br/> <b>Midlothian</b><br/> <b>EH26 0PZ</b></p> | <p><b>Contact: Mrs Lorraine Connell</b><br/> <b>Tel: +44 (0)1292 525434</b><br/> <b>E-Mail: Lorraine.Connell@sruc.ac.uk</b><br/> <b>Website: www.sruc.ac.uk</b></p> |
| <p><b>Testing performed by the Organisation at the locations specified below</b></p>   |  |   |

### Locations covered by the organisation and their relevant activities

#### Laboratory locations:

| Location details  | Activity  | Location code |
|---|---|---------------|
| <p><b>Address</b><br/>           Veterinary and Analytical Laboratory<br/>           Pentlands Science Park<br/>           Bush Loan<br/>           Penicuik<br/>           Midlothian<br/>           EH26 0PZ</p> <p><b>Local contact</b><br/>           Mrs Liz Mackay</p>          | Biochemistry<br>Haematology<br>Chemistry<br>Microbiology<br>Serology<br>Molecular Biology<br>Co-ordination of Group Auditing<br>Quality Management Support<br>Management of Flexible Scope (Serology)<br>Opinions and Interpretations | EDI           |
| <p><b>Address</b><br/>           Veterinary Services<br/>           Glencorse Building<br/>           Pentland Science Park<br/>           Bush Loan<br/>           Penicuik<br/>           Midlothian<br/>           EH26 0PZ</p> <p>Local contact<br/>           Mrs Liz Mackay</p> | Sampling of Necropsy Material   | EDI2          |
| <p><b>Address</b><br/>           Veterinary and Analytical Laboratory<br/>           Pentlands Science Park<br/>           Bush Loan<br/>           Penicuik<br/>           Midlothian<br/>           EH26 0PZ</p> <p><b>Local contact</b><br/>           Mrs Liz Mackay</p>          | Companion animal testing associated with Microbiology<br>Biochemistry<br>Opinions and Interpretations   | CD            |



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| Location details  | Activity                                    | Location code  |
|---|---|--|
| <b>Address</b><br>Veterinary Services<br>Glencorse Building<br>Pentland Science Park<br>Bush Loan<br>Penicuik<br>Midlothian<br>EH26 0PZ | <b>Local contact</b><br>Mrs Liz Mackay      | Sampling of Necropsy Material<br>CD2                                 |
| <b>Address</b><br>Greycrook<br>St Boswells<br>Roxburghshire<br>TD6 0EU  | <b>Local contact</b><br>Mr David Wilson     | Sampling of Necropsy Material<br>Opinions and Interpretations<br>STB |
| <b>Address</b><br>Epidemiology Research Unit<br>Plot 10 An Lochran<br>Inverness Campus<br>Inverness<br>IV2 5NA                          | <b>Local contact</b><br>Ms Catriona Webster | Microbiology<br>INV  |
| <b>Address</b><br>Mill of Craibstone<br>Bucksburn<br>Aberdeen<br>AB21 9TB   | <b>Local contact</b><br>Mr T Geraghty       | Sampling of Necropsy Material<br>Opinions and Interpretations<br>ABD |
| <b>Address</b><br>Janetstown<br>Thurso<br>KW14 7XF  | <b>Local contact</b><br>Mr Franz Brulisaur  | Sampling of Necropsy Material<br>Opinions and Interpretations<br>THU |
| <b>Address</b><br>St Mary's Industrial Estate<br>Dumfries<br>DG1 1DX  | <b>Local contact</b><br>Mr Colin Mason      | Sampling of Necropsy Material<br>Opinions and Interpretations<br>DUM |



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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 |
|---------------------------|--|---|---------------|
| SERUM / PLASMA            | <u>Biochemistry Tests</u>  | Documented In-house Method using Randox Imola analyser by spectrophotometry | EDI, CD       |
|                           | Albumin<br>Alanine Transaminase<br>Amylase<br>Alkaline Phosphatase<br>Aspartate Amino Transferase<br>D3-Hydroxybutyrate<br>Bile acids<br>Total Bilirubin<br>Calcium<br>Chloride<br>Cholesterol<br>Creatinine kinase<br>Creatinine<br>Fructosamine<br>Gamma Glutamyl Transferase<br>Glutamate Dehydrogenase<br>Glucose<br>Glutathione Peroxidase<br>Lipase<br>Magnesium<br><br>Inorganic Phosphorous<br>Potassium<br>Sodium<br>Total Protein<br>Triglycerides<br>Urea |   |               |
| URINE                     | Creatinine   | BCRE  | EDI, CD       |



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|--------------------------------------|--|--|---------------|
| SERUM / PLASMA (cont'd)              | <u>Biochemistry Tests</u> (cont'd)                       | Documented In-house Methods using Immulite analyser.<br>Chemiluminescent enzyme immunoassays |               |
|                                      | Cortisol   | SOP/VSG/CHEMIMMULITE   | CD            |
|                                      | Folate   | SOP/VSG/CHEMIMMULITE   | CD            |
|                                      | Phenobarbitone   | SOP/VSG/CHEMIMMULITE   | CD            |
|                                      | Progesterone   | SOP/VSG/CHEMIMMULITE   | EDI, CD       |
|                                      | Total T4   | SOP/VSG/CHEMIMMULITE   | CD            |
|                                      | TSH  | SOP/VSG/CHEMIMMULITE   | CD            |
|                                      | Vitamin B12  | SOP/VSG/CHEMIMMULITE   | EDI, CD       |
| TISSUE                               | Copper (Nitric Acid digest)<br>Lead (Nitric Acid digest) | TISSUE/Microwave Digestion/ICP spectrometry  | EDI           |
| SERUM                                | Copper<br>Zinc   | ICP spectrometry   | EDI           |
| WHOLE BLOOD                          | Lead<br>Manganese  | SOP/VSG/CHEMIMS by ICP-MS  | EDI           |
| SEDIMENTS, SLUDGES AND ORGANIC WASTE | <u>Chemical Tests</u>                                    | Documented In-house Methods unless otherwise stated  |               |
|                                      | Fluoride (acid soluble)                                  | SOXF by Ion selective electrode  | EDI           |
|                                      | Aqua Regia Soluble elements as listed below:             |  |               |
|                                      | Aluminium (not soils)                                    | SOT/OW/ICP by ICP-OES spectrometry   | EDI           |
|                                      | Calcium  |  |               |
|                                      | Cadmium*   | * using microwave digestion by   |               |
|                                      | Copper*  | SOP/SRUCVS/CHEMSOTOWDIG  |               |
|                                      | Chromium   | EST  |               |
|                                      | Iron   |  |               |
|                                      | Lead*  |  |               |
|                                      | Magnesium  |  |               |
|                                      | Manganese  |  |               |
|                                      | Nickel*  |  |               |
|                                      | Molybdenum*  |  |               |
|                                      | Phosphorus   |  |               |
|                                      | Potassium  |  |               |
|                                      | Sodium   |  |               |
|                                      | Sulphur  |  |               |
|                                      | Zinc   |  |               |



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| SOILS                                 | <u>Chemical / Physical Tests</u>  | Documented In-house Methods unless otherwise stated                                |               |
| SOIL plus LIME requirement soils only | pH  | SOP/VSG/CHEMPGPSPH by SKALAR robot pH electrode                                    | EDI           |
|                                       | Organic Matter (Loss on ignition)   | SOP/VS/CHEMWSOLOIASH ASH by gravimetry   | EDI           |
|                                       | Aqua regia extractable metals   |  |               |
|                                       | Arsenic<br>Cadmium<br>Chromium<br>Copper<br>Lead<br>Mercury<br>Molybdenum<br>Nickel<br>Selenium<br>Zinc                     | SOP/VSG/CHEMIMS by ICP-MS using microwave digestion by SOP/SRUCVS/CHEMSOTOWDIG EST | EDI           |
|                                       | Boron (Hot CaCl <sub>2</sub> extractable)   | SOXB/ICP by ICP spectrometry   | EDI           |
|                                       | Phosphorus (Olsen's)  | ADAS Routine P by spectrometry   | EDI           |
|                                       | Phosphorus (Modified Morgan's)  | SAC Routine P by spectrometry  | EDI           |
|                                       | Ammonium Nitrate<br>Extractable elements as listed below<br>Potassium<br>Magnesium<br>Sodium                                | ADAS Routine analysis by ICP spectrometry  | EDI           |
|                                       | Potassium (Modified Morgan's)<br>Magnesium (Modified Morgan's)<br>Calcium (Modified Morgan's)<br>Sodium (Modified Morgan's) | SAC Routine analysis by ICP spectrometry   | EDI           |



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| SOILS (cont'd)  | <u>Chemical / Physical Tests</u><br>(cont'd)   | Documented In-house Methods unless otherwise stated   |               |
|   | Cobalt (Acetic Acid Extractable)<br>Sulphur  | SOXCO by ICP spectrometry<br>SOXS by ICP spectrometry   | EDI           |
|   | Copper (EDTA Extractable)<br>Zinc (EDTA Extractable)   | SOXEDTA by ICP spectrometry   | EDI           |
| PLANTS, ANIMAL FEEDS AND SOILS                                    | <u>Chemical / Physical Tests</u>   | Documented In-House Methods unless otherwise stated   |               |
|   | Nitrogen (Kjeldahl)  | SOP/VSG/CHEMWNCPC and SOP/VSG/CHEMWSEMIMICRODIG - Kjeldahl digestion and potentiometric titration using Gerhardt Vapodest 50S | EDI           |
| PLANT TISSUE, ANIMAL FEED FORAGE, CONCENTRATES AND COMPLETE DIETS | <u>Chemical / Physical Tests</u>   | Documented In-House Methods unless otherwise stated   |               |
|   | Dry matter   | Dry Matter using oven drying at 100 °C  | EDI           |
| PLANT TISSUE, ANIMAL FEEDS AND ANIMAL TISSUE                      | Arsenic<br>Cadmium<br>Cobalt<br>Selenium<br>Molybdenum<br>Lead   | CHEMIMSMWMINS ICP-MS, prepared by Nitric Acid Digest  | EDI           |
| PLANT TISSUE, ANIMAL FEED FORAGE, CONCENTRATES AND COMPLETE DIETS | Boron<br>Calcium<br>Copper<br>Iron<br>Magnesium<br>Manganese<br>Phosphorus<br>Potassium<br>Sodium<br>Sulphur<br>Zinc | ICP-OES spectrometry prepared by Nitric Acid Digest   | EDI           |
|   | Nitrogen (Kjeldahl) and crude protein  | NITROGEN - CRUDE by Kjeldahl Digest/Steam distillation  | EDI           |



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|---|---|---|---------------|
| ANIMAL FEED FORAGE, CONCENTRATES AND COMPLETE DIETS     | <u>Chemical / Physical Tests</u>  | Documented In-House Methods unless otherwise stated         |               |
|   | Crude Protein (Kjeldahl)  | Total N Kjeldahl Digest/Steam distillation                  | EDI           |
|   | Crude Fibre   | CF/Fibercap (gravimetric)                                   | EDI           |
|   | Acid detergent fibre  | ADF/Fibercap (gravimetric)                                  | EDI           |
|   | Neutral detergent fibre   | NDF/Fibercap (gravimetric)                                  | EDI           |
|   | Neutral cellulase and gammanase digestibility   | NCGD/FibreCAP (gravimetric)/Maff PB1285                     | EDI           |
|   | Starch  | Polarimetry   | EDI           |
|   | Total Sugars  | Luff-School Titration                                       | EDI           |
| LIMING MATERIALS  | Neutralising Value  | NV/Titration based on SI 1991, No973                        | EDI           |
| WHOLE BLOOD<br>Bovine, Canine, Equine, Feline and Ovine | <u>Haematology Tests</u>  | Documented In-house Method                                  |               |
|   | Haemoglobin<br>Packed cell volume<br>Platelet count<br>Red blood cell count<br>White blood cell count | SOP VSG/HVETPLUS using Horiba Vet Plus haematology analyser | EDI, CD       |
|   | White blood cell differential count   | HDIFF using Microscopy                                      | EDI, CD       |



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| ANIMAL FLUIDS AND TISSUES – as specified  | <u>Molecular Biology Tests</u>  | Documented In-house PCR Methods  |               |
| Ovine Blood   | Scrapie Genotyping:<br>136/154/171 Codon                                  | SOP/VSG/MBSCRAPIEPCR<br>(Applied Biosystems MagMAX extraction system and MagMAX CORE extraction kit).<br>Real time RT-PCR using Applied Biosystems 7500  | EDI           |
| Bovine Milk (Individual Or Bulk), Liquid Culture, Synovial Fluid Swabs, Respiratory Swabs, Bronchial-Alveolar Lavages, Lung | Detection of <i>Mycoplasma bovis</i> DNA                                  | MBMbovisPCR<br>(Applied Biosystems MagMAX extraction system and MagMAX CORE extraction kit).<br>Real time PCR using Applied Biosystems 7500 using VetMAX Mycoplasma bovis kit                      | EDI           |
| Porcine Lung Tissue, Swabs And Oral Fluids  | Detection of <i>Mycoplasma hyopneumoniae</i> DNA                          | MBMHYORETIPCR<br>(Applied Biosystems MagMAX extraction system and MagMAX CORE extraction kit).<br>Real time PCR using Applied Biosystems 7500 using VetMAX Reagents and controls                   | EDI           |
| Porcine Tonsil/Throat Swabs   | Detection of <i>Actinobacillus pleuropneumoniae</i> APP 1V toxigene (DNA) | MBCONPCR<br>(Applied Biosystems MagMAX extraction system and MagMAX CORE extraction kit).<br>Nested endpoint PCR (using Applied Biosystems 9700, with visualisation by agarose gel electrophoresis | EDI           |
| Porcine Throat/Nasal Swabs  | Detection of toxogenic <i>Pasteurella multocida</i> DNA                   | MBTOXPMPPCR<br>(Applied Biosystems MagMAX extraction system and MagMAXCOREextraction kit).<br>Nested PCR using Applied Biosystems 7500, with visualisation by agarose gel electrophoresis          | EDI           |





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| ANIMAL FLUIDS & TISSUES – as specified (cont'd)  | <u>Molecular Biology Tests</u> (cont'd)   | Documented In-house PCR Methods   |               |
| Porcine Serum, Semen, Throat Swabs, Lung Tissue, Oral Fluids and Blood swabs   | Detection of Porcine Reproductive and Respiratory Syndrome virus (PRRSV) RNA  | BPRRSVRETIRTPCR (Applied Biosystems MagMAX extraction system and MagMAX CORE extraction kit). Real time RT-PCR using Applied Biosystems 7500 using INDICAL Virotype kit                                       | EDI           |
| Bovine Milk and Serum  | Detection of Bovine Viral Diarrhoea virus (BVDV) RNA  | MBBVDVRETIRTPCR (Applied Biosystems MagMAX extraction system and MagMAX CORE extraction kit. Real time RT-PCR using Applied Biosystems 7500 using VetMAX Gold BVDV kit  | EDI           |
| Bovine Ear Tissue  | Detection of Bovine Viral Diarrhoea virus (BVDV) RNA  | MBBVDVEARPCR Real time RT-PCR using Applied Biosystems 7500 using INDICAL TLR and virotype BVDV kit   | EDI           |
| Bovine Respiratory and Abortion Materials: Swabs, Lung, Liver, Spleen, Trachea, Oesophagus, Placenta, Palate, Larynx, Tonsil, Brain, Bronchoaleolar Lavage and Foetal Fluids | Detection of RNA from Bovine Respiratory Syncytial Virus (BRSV), Bovine Herpesvirus (BoHV-1) and Bovine Parainfluenza Virus (PI3) | MBRESPMULTIPCR (Applied Biosystems MagMAX extraction system and MagMAX CORE extraction kit). Real Time Reverse Transcription-PCR using Applied Biosystems 7500 using Qiagen Quantifast Multiplex RT-PCR+R kit | EDI           |
| Serum  | Detection of Border Disease Virus (BDV) and Bovine Viral Diarrhoea Virus (BVDV) RNA   | MBBORDERDISEASEPCR (Applied Biosystems MagMAX extraction system and MagMAX CORE extraction kit). Real time RT-PCR using Applied Biosystems 7500 using QIAGEN kit  | EDI           |
| Porcine Post Mortem Material, Faeces, Bacterial Cultures   | Detection of <i>Brachyspira</i> spp with speciation DNA   | MBCONPCR, MBBRACDIG (Applied Biosystems MagMAX extraction system and MagMAX CORE extraction kit). Endpoint PCR using GeneAmp 9700, RFLP analysis, with visualisation by PAGE                                  | EDI           |



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| ANIMAL FLUIDS & TISSUES – as specified (cont'd)<br><br><i>E. coli</i> isolates cultured from porcine faeces | <u>Molecular Biology Tests</u> (cont'd)<br><br>Detection of:<br><i>E. coli</i> Virulence factor adhesion DNA:-F4, F5, F6, F18, F41 and Intimin<br><br>Enterotoxin and Shiga-toxin producing <i>E. coli</i> (ETEC and STEC) Virulence factor DNA:- LTI, STaP, STb and Stx2e | Documented In-house PCR Methods<br><br>MBECOPCR<br>(Applied Biosystems MagMAX extraction system and MagMAX CORE extraction kit).<br>Multiplex One-Step PCR, visualisation using gel electrophoresis using 4.0 Image Analysis system | EDI           |
| Porcine Faeces, Rectal Swabs, Post Mortem Material  | Detection of <i>Lawsonia intracellularis</i> DNA   | MBCONPCR<br>(Applied Biosystems MagMAX extraction system and MagMAX CORE extraction kit).<br>Endpoint Nested PCR using GeneAmp 9700 with visualisation by agarose gel electrophoresis   | EDI           |
| Bovine Faeces and Liquid Cultures   | Detection of <i>Mycobacterium avium paratuberculosis</i> (MAP) DNA   | MBIDGENEMAPPCR<br>Real time PCR using IDVet ID Gene MAP kit<br>MBMAGFASTMAPEXT<br>ID.Vet ID Gene Mag Fast nucleic acid extraction   | EDI           |
| Porcine Oral Fluid, Nasal Swabs, Lung Tissue, Serum, Faeces   | Detection of Porcine Circovirus Type 2 (PCV2) DNA  | MBPCV2PCR<br>(Applied Biosystems Magmax extraction system and MagMax CORE extraction kit).<br>Real time PCR using Applied Biosystems 7500 using VetMax Porcine Circovirus Type 2 Quantification Kit                                 | EDI           |



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| ANIMAL FLUIDS & TISSUES – as specified (cont'd)                                | <u>Molecular Biology Tests</u> (cont'd)   | Documented In-house PCR Methods   |  |
| Porcine Oral Fluid, Nasal Swabs, Lung Tissue, Lung Lavages (Bal Washes), Serum | Detection of Swine Influenza Virus (SIV) RNA  | MBSIVPCR (Applied Biosystems Magmax extraction system and MagMax CORExtraction kit). Real time RT-PCR using Applied Biosystems 7500 using VetMax Gold SIV Detection Kit and VetMAX Gold SIV Subtyping Kit. Identification of subtypes H1N1, H3N2 and H1N2.  | EDI  |
| HUMAN BODY FLUIDS  |   |   |  |
| Inactivated combined nose and throat swabs in VTM                              | Detection of SARS-CoV-2 RNA Targets: N gene, ORF1ab gene, S gene for subsequent clinical interpretation at private or NHS facilities by medically qualified personnel | MBSARSCOV2PCR Applied Biosystems MagMAX Express 96 extraction system and MVP11 extraction kit. Real time RT-PCR using AB 7500 using the TaqPath COVID-19 CE-IVD RT-PCR kit.   | EDI  |
| TISSUES, BODY FLUIDS AND NECROPSY MATERIAL                                     | <u>Microbiology Tests</u><br>Microscopy and microbial culture techniques for detecting pathogenic micro-organisms   | Documented In-house Methods<br>SOP/VSG/MSAMPTRANS Sample transfer<br>SOP/VSG/MGRAM Gram Stain<br><br>UG/SACCVSG/52 Basic Bacteriological Techniques<br>UG/SACCVSG/53 Routine Culture Plate and Smear Selection<br>SOP/VSG/MGRAM Gram Stain<br><br>MCNS: Central nervous system<br>MEME: Ear/mouth/eye fluid/swabs<br>MRES: Respiratory system<br>MMA: Milks | ABD, DUM, STB, THU<br><br>EDI CD<br><br>EDI<br>EDI<br>EDI<br>EDI |



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| TISSUES, BODY FLUIDS AND NECROPSY MATERIAL (cont'd)                    | <u>Microbiology Tests</u> (cont'd)<br><br>Microscopy and microbial culture techniques for detecting pathogenic micro-organisms (cont'd) | Documented In-House Methods   |                   |
|  |   | MUR: Urine  | EDI ,CD           |
|  |   | MANIS: Anaerobic bacteria   | EDI               |
|  |   | MWA: Wounds/abscess swabs/pus   | EDI               |
|  |   | MABORT Laboratory investigation of Abortion   | EDI               |
|  |   | MNMS: Necropsy material/ Miscellaneous samples  | EDI               |
| Veterinary Bacterial Colonies from solid media                         | Identification based upon bacterial protein profile matching against Bruker and in house databases                                      | SOP/VS/MMICROMALDI using the Bruker MALDI-TOF MS system                                   | EDI, CD           |
| TISSUES, BODY FLUIDS AND NECROPSY MATERIAL, ENTERIC AND LITTER SAMPLES | Isolation of <i>Salmonella</i> spp  | MSALSCREEN using Selenite or Rappaports (species dependent)                               | EDI               |
| Enteric Samples  | Detection of <i>Cryptosporidium</i> oocysts   | PCRYPTO by microscopy with staining by cold ZN  | EDI, CD, STB, DUM |
| Enteric Samples, Genital Samples, Placental and Foetal Samples         | Isolation of <i>Campylobacter</i>   | MCAMPY  | EDI               |
| TISSUES, MILK and BOVINE SAMPLES                                       | Isolation and determination of <i>Brucella</i> spp  | MBRU with staining by Modified ZN (MMZN) in association with Rose Bengal Plate Test SRBPT | EDI               |
| Enteric Samples  | Isolation of <i>Yersinia</i> spp  | MYERS   | EDI               |
| Enteric Samples  | Detection of Rotavirus  | MBRotaPAGE using polyacrylamide gel electrophoresis                                       | EDI               |



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| ANIMAL FLUIDS AND TISSUES – as specified (cont'd) | <u>Microbiology Tests</u> (cont'd)  | Documented In-house Methods   |                    |
| Skin and Hair                                     | Isolation of and identification of Dermatophilus                                      | MDERM   | EDI                |
| Skin and Hair                                     | Isolation of and identification of Dermatophytes                                      | MSHA  | EDI                |
| Bacterial Isolates                                | Determination of antibiotic susceptibility  | MAST based on BSAC guidelines 2009 (obsolete)   | EDI                |
| Tissue Smears                                     | Presumptive Chlamydophilus  | MMZN by microscopy using modified Ziehl-Neelsen stain   | EDI, CD, DUM       |
| FAECES AND ANIMAL TISSUES                         | Isolation and confirmation of E. coli O157  | ERU/002 using immunomagnetic separation (IMS) and selective plating   | INV                |
| Blood Smears                                      | Bacillus anthracis (presumptive)  | MANTH by microscopy using polychrome methylene blue stain   | EDI, CD, STB, DUM  |
| Tissues, Faeces                                   | Acid fast bacilli including presumptive Johnes AFB                                    | MMYCOB by microscopy using Ziehl-Neelsen stain  | EDI, CD, STB, DUM  |
| Mammalian & Avian Species                         | Necropsy procedures on carcasses to collect tissue samples for diagnostic examination | VPMFARM & VPMCOMPANION  | STB, ABD, THU, DUM |
| Mammalian &, Avian Species                        | Necropsy procedures on carcasses to collect tissue samples for diagnostic examination | VPMCOMPANION  | EDI2, CD2          |
| ANIMAL FLUIDS AND TISSUES – as specified          | <u>Serology Tests</u>   | Documented In-house Methods   |                    |
| Serum, plasma, milk (individual and bulk samples) | Detection of antigens and antibodies  | Methods developed and validated following the Flexible Scope: FLEXELISA - using direct, indirect, competitive and non competitive ELISA techniques with both automated and manual reading | EDI                |



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### United Kingdom Accreditation Service

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

### SAC Commercial Ltd, also trading as Capital Diagnostics

Issue No: 048 Issue date: 02 December 2021

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 |
|---|---|--|---------------|
| ANIMAL FLUIDS AND TISSUES – as specified (cont'd)                 | <u>Serology Tests</u> (cont'd)  | Documented In-house Methods  |               |
| Serum, plasma, milk (individual and bulk samples) and ear tissue. | Detection of antigens and antibodies  | Methods developed and validated following the Flexible Scope: FLEXELISA - using direct, indirect, competitive and non competitive ELISA techniques with both automated and manual reading and automated (TECAN Freedom EVO workstation) or manual processing | EDI           |
| SERUM / PLASMA  | Parainfluenza Virus Type 3 (PI3)  | PI3 Ab by ELISA  | EDI           |
| Bovine Serum, Plasma  | Detection of antibodies to Bovine Viral Diarrhoea (BVD) / Border Disease (BD) | Idexx BVDV p80 Ab ELISA  | EDI           |
| Bovine, Ovine Serum, Plasma                                       | Detection of antibodies to Bovine Viral Diarrhoea (BVD) / Border Disease (BD) | ID Screen BVDV p80 Ab competition ELISA  | EDI           |
| Bovine Serum, Plasma  | Detection of antibodies to Bovine Viral Diarrhoea (BVD)                       | Svanovir® BVDV Ab ELISA  | EDI           |
| Bovine Milk (Bulk and Individual)                                 | Detection of antibodies to Bovine Viral Diarrhoea (BVD)                       | Svanovir® BVDV Ab ELISA  | EDI           |
| Bovine, Ovine, Caprine Serum, Plasma                              | Detection of antibodies to Mycobacterium avium sub paratuberculosis (Johnes)  | ID Screen® Paratuberculosis Indirect   | EDI           |
| Bovine Serum, Plasma  | Detection of antibodies to Leptospira hardjo                                  | PrioCHECK® L. Hardjo Ab ELISA  | EDI           |
| Bovine Milk (Bulk and Individual)                                 | Detection of antibodies to <i>Leptospira hardjo</i>                           | Linnodee Bovine Leptospira Hardjo ELISA Kit  | EDI           |
| Bovine Serum, Plasma  | Detection of antibodies to Infectious Bovine Rhinotracheitis Virus (IBR)      | Idexx IBR (BHV1)gB Ab ELISA (competitive)  | EDI           |



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| ANIMAL FLUIDS AND TISSUES – as specified (cont'd)         | <u>Serology Tests</u> (cont'd)  | Documented In-house Methods                                 |               |
| Bovine Serum, Plasma<br>Bovine Milk (Bulk and Individual) | Detection of antibodies to Infectious Bovine Rhinotracheitis Virus (IBR)    | Svanovir® IBR Ab ELISA (indirect)                           | EDI           |
| Bovine Serum, Plasma                                      | Detection of antibodies to gE Antigen of Bovine Herpes Virus Type 1 (BHV-1) | Idexx IBRgE ELISA   | EDI           |
| Bovine Serum, Plasma                                      | Detection of antibodies to Bovine respiratory syncytial virus (BRSV)        | Svanovir® BRSV Ab ELISA                                     | EDI           |
| Bovine Serum, Plasma                                      | Antibodies to Neospora canium   | LSIVet™ Bovine Neosporosis Advanced ELISA                   | EDI           |
| Bovine, Ovine, Caprine, Serum, Plasma,                    | Antibodies to Schmallenberg Virus   | ID Screen® Schmallenberg virus indirect multispecies        | EDI           |
| Bovine Ovine, Caprine Milk (Bulk and Individual)          | Antibodies to Schmallenberg Virus   | ID Screen® Schmallenberg virus Milk indirect                | EDI           |
| Caprine and Ovine Foetal Fluids                           | Antibodies to Toxoplasma gondii   | SOP/VSG/STXFA by Indirect fluorescence antibody test (IFAT) | EDI           |
| Ovine, Caprine Serum, Plasma individual milks             | Antibodies to Maedi-visna (MV) and Caprine arthritis-encephalitis (CAE)     | MV/CAE by VLA Maeditect AGIDT                               | EDI           |
| Ovine, Caprine Serum, Plasma (including pooled samples)   | Antibodies to Maedi-visna (MV) and Caprine arthritis-encephalitis (CAE)     | MV/CAE by ELISA   | EDI           |
| Bovine, Ovine, Caprine Serum, plasma and foetal fluid     | Antibodies to <i>Toxoplasma gondii</i>                                      | SOP/VSG/STOXGON by ELISA                                    | EDI           |



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|--|--|--|-----------------------------|
| ANIMAL FLUIDS AND TISSUES – as specified (cont'd)                                      | <u>Serology Tests</u> (cont'd)   | Documented In-house Methods                        |                             |
| Porcine Serum, Plasma  | Detection of antibodies to Porcine Reproductive and Respiratory Syndrome Virus (PRRSV)                       | SOP/SRUCVS/SPRRS using IDEXX PRRS x3 ELISA kit     | EDI                         |
| Enteric Samples  | Detection of Rota virus  | SENTERELISA by ELISA using Pathosure 4             | EDI                         |
| Neonatal Calf Faeces   | Detection of Coronavirus   | SENTERELISA by ELISA using Pathasure 4             | EDI                         |
|  | <u>Virology Tests</u>  |  |                             |
| Bovine Serum, Plasma, blood and ear tissue   | Detection of bovine viral Diarrhoea  | Idexx BVDV Antigen ELISA (Erns ELISA)              | EDI                         |
|  | <u>Opinions and Interpretations</u>  |  |                             |
| RESULTS OF DIAGNOSTIC TESTS AND POST MORTEM EXAMINATIONS, as detailed in this Schedule | Diagnosis for the control and prevention of disease in farm and companion animals, either single or multiple | Documented in-house procedures                     | EDI, CD, STB, ABD, THU, DUM |
| END  |  |  |                             |