


# Schedule of Accreditation

issued by

## United Kingdom Accreditation Service

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

 <p style="text-align: center;">Accredited to ISO/IEC 17025:2005</p>	<h3>SAC - Veterinary Services Group including Capital Diagnostics</h3> <p>Issue No: 029    Issue date: 04 May 2012</p>	
	<p><b>Central Analytical Laboratory</b> Allan Watt Building Bush Estate Penicuik Midlothian Scotland EH26 0QE</p>	<p><b>Contact: Mr Richard Cowie</b> Tel: +44 (0)1224 711167 Fax: +44 (0)1224 711291 E-Mail: richard.cowie@sac.co.uk Website: www.sac.ac.uk</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		
<table style="width: 100%; border: none;"> <tr> <td style="width: 50%;"><b>Address</b> Central Analytical Laboratory Allan Watt Building Bush Estate Penicuik Midlothian EH26 0QE</td> <td style="width: 50%;"><b>Local contact</b> Mr Ralph Seaton</td> </tr> </table>	<b>Address</b> Central Analytical Laboratory Allan Watt Building Bush Estate Penicuik Midlothian EH26 0QE	<b>Local contact</b> Mr Ralph Seaton	Microbiology Biochemistry Sampling of Necropsy Material Chemistry Serology Molecular Biology Haematology Opinions and Interpretations Co-ordination of Group Auditing Quality Management Support Management of Flexible Scope (Serology)	EDI
<b>Address</b> Central Analytical Laboratory Allan Watt Building Bush Estate Penicuik Midlothian EH26 0QE	<b>Local contact</b> Mr Ralph Seaton			
<table style="width: 100%; border: none;"> <tr> <td style="width: 50%;"><b>Address</b> Greycrook St Boswells Roxburghshire TD6 0EU Scotland</td> <td style="width: 50%;"><b>Local contact</b> Mrs Fiona Burns</td> </tr> </table>	<b>Address</b> Greycrook St Boswells Roxburghshire TD6 0EU Scotland	<b>Local contact</b> Mrs Fiona Burns	Microbiology Serology Sampling of Necropsy Material Opinions and Interpretations	STB
<b>Address</b> Greycrook St Boswells Roxburghshire TD6 0EU Scotland	<b>Local contact</b> Mrs Fiona Burns			



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<b>Address</b> Capital Diagnostics Allan Watt Building Bush Estate Penicuik Midlothian EH2 0QE	<b>Local contact</b> Mr Ralph Seaton	Companion animal testing associated with Microbiology Biochemistry Sampling of Necropsy Material Opinions and Interpretations	CD
<b>Address</b> Drummond Hill Stratherrick Road Inverness IV2 4JZ	<b>Local contact</b> Mr Geoff Foster	Microbiology Serology Sampling of Necropsy Material Opinions and Interpretations	INV
<b>Address</b> Mill of Craibstone Bucksburn Aberdeen AB21 9TB	<b>Local contact</b> Ms T Stewart	Microbiology Serology Sampling of Necropsy Material Opinions and Interpretations Support function; QC of Brucella media	ABD
<b>Address</b> Auchincruive Ayr KA6 5AE	<b>Local contact</b> Gwen Duncan	Microbiology Sampling of Necropsy Material Opinions and Interpretations Administration and archive of Quality system documentation	AYR
<b>Address</b> Janetstown Thurso KW14 7XF Scotland	<b>Local contact</b> Ms Dawn Alderson	Microbiology Sampling of Necropsy Material Opinions and Interpretations	THU
<b>Address</b> 5 Bertha Park View Perth PH1 3FZ	<b>Local contact</b> Mr Dennis Henderson	Microbiology Sampling of Necropsy Material Opinions and Interpretations Serology	PER
<b>Address</b> St Mary's Industrial Estate Dumfries DG1 1DX	<b>Local contact</b> Mr Forbes Rogerson	Microbiology Sampling of Necropsy Material Opinions and Interpretations Serology	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		EDI,CD
	Alanine Transaminase		EDI,CD
	Amylase		EDI,CD
	Alkaline Phosphatase		EDI,CD
	Aspartate Amino Transferase		EDI,CD
	D3-Hydroxybutyrate		EDI,CD
	Total Bilirubin		EDI,CD
	Calcium		EDI,CD
	Chloride		EDI,CD
	Cholesterol		EDI,CD
	Creatinine kinase		EDI,CD
	Creatinine		EDI,CD
	Fructosamine		EDI,CD
	Gamma Glutamyl Transferase		EDI,CD
	Glutamate Dehydrogenase		EDI,CD
	Glucose		EDI,CD
	Glutathione Peroxidase		EDI,CD
	Lipase		EDI,CD
	Magnesium		EDI,CD
Inorganic Phosphorous	EDI,CD		
Potassium	EDI,CD		
Sodium	EDI,CD		
Total Protein	EDI,CD		
Triglycerides	EDI,CD		
Urea	EDI,CD		
SERUM ONLY	Bile acids		EDI,CD
	Non-esterified fatty acids		EDI
URINE	Creatinine	BCRE	EDI,CD



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SERUM/PLASMA	<u>Biochemistry Tests</u>	Documented In - House Methods using Immulite analyser. 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) Lead (Nitric Acid digest) Zinc (Nitric Acid digest)	TISSUE/Microwave Digestion/ICP spectrometry	EDI
	Selenium	TISSUE analysis by microwave digestion and atomic fluorescence	EDI
SERUM	Copper Zinc	ICP spectrometry	EDI
WHOLE BLOOD	Lead	SOP/VSG/CHEMIMS by ICP-MS	EDI
SOILS, SEDIMENTS, SLUDGES AND ORGANIC WASTE	<u>Chemical Tests</u>	Documented In-House Methods unless otherwise stated	EDI
	Fluoride (acid soluble)	SOXF by Ion selective electrode	EDI
	Aqua Regia Soluble elements as listed below		EDI
	Aluminium (not soils) Calcium Cadmium Cobalt Copper Chromium Iron Lead Magnesium Manganese Nickel Molybdenum	SOT/OW/ICP by ICP-OES spectrometry	EDI



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SOILS, SEDIMENTS, SLUDGES AND ORGANIC WASTE (cont'd)	<u>Chemical Tests</u> (cont'd)	Documented In-House Methods unless otherwise stated	EDI
	Aqua Regia Soluble elements as listed below (cont'd)		
	Continued from Page 4		
	Phosphorus		
	Potassium		
	Sodium		
	Sulphur		
	Zinc		
	Aqua Regia Soluble elements as listed below:		
	Arsenic		
Mercury	SOT/OW/HG by Atomic Fluorescence	EDI	
Selenium	SOT/OW/SE by Atomic Fluorescence	EDI	
pH	SOILPH by pH electrode	EDI	
Organic Matter (Wet Oxidation)	OM WETOX by ADAS RB427/Titration	EDI	
Organic Matter (Loss on ignition)	ASH by gravimetry	EDI	
SOILS	<u>Chemical Tests</u>		
<u>Aqua regia extractable metals</u>	SOP/VSG/CHEMIMS by ICP-MS	EDI	
Arsenic			
Cadmium			
Chromium			
Copper			
Lead			
Mercury			
Molybdenum			
Nickel			
Selenium			
Zinc			
Boron (Hot CaCl <sub>2</sub> extractable)	SOXB/ICP by ICP spectrometry	EDI	



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SOILS (cont'd)	<u>Chemical Tests</u> (cont'd)		
	<u>Aqua regia extractable metals</u> (cont'd)		
	Phosphorus (Olsen's)	ADAS Routine P by spectrometry	EDI
	Phosphorus (Modified Morgan's)	SAC Routine P by spectrometry	EDI
	Phosphorous (Sodium Bicarbonate Extractable)	ADAS P colorimetric method using Flow Injection spectrometry	EDI
	Ammonium Nitrate Extractable elements as listed below Potassium Magnesium Sodium	ADAS Routine analysis by ICP spectrometry	EDI
	Potassium (Modified Morgan's) Magnesium (Modified Morgan's) Calcium (Modified Morgan's) Sodium (Modified Morgan's)	SAC Routine analysis by ICP spectrometry	EDI
	Cobalt (Acetic Acid Extractable) Sulphur	SOXCO by ICP spectrometry SOXS by ICP spectrometry	EDI
	Copper (EDTA Extractable) Zinc (EDTA Extractable)	SOXEDTA by ICP spectrometry	EDI
Conductivity	CONDUCTIVITY by electrode based on BS 3882:1994, Topsoil specification	EDI	
PLANTS, ANIMAL FEEDS AND SOILS	Nitrogen (Kjeldahl)	SOP/VSG/CHEMWNCP and SOP/VSG/CHEMWSEMIMICRO DIG - Kjeldahl digestion and potentiometric titration using Gerhardt Vapodest 50S	EDI



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PLANT TISSUE, ANIMAL FEED FORAGE, CONCENTRATES AND COMPLETE DIETS	<u>Chemical Tests</u> (cont'd)		
	Dry matter	Dry Matter using oven drying at 100 °C	EDI
	All elements listed below prepared by Nitric Acid Digest:		
	Boron Calcium Cadmium Chromium Cobalt Copper Iron Lead Magnesium Manganese Phosphorus Potassium Sodium Sulphur Zinc	ICP spectrometry	EDI
	Selenium	ICP Spectrometry using atomic fluorescence	EDI
ANIMAL FEED FORAGE, CONCENTRATES AND COMPLETE DIETS	Nitrogen (Kjeldahl) and crude protein	NITROGEN - CRUDE by Kjeldahl Digest/Steam distillation	EDI
	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
	Acid digestible inorganic nitrogen	ADIN/FibreCAP/Steam distillation	EDI



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ANIMAL FEED FORAGE, CONCENTRATES AND COMPLETE DIETS (cont'd)	<u>Chemical Tests</u> (cont'd)		
	Starch	Polarimetry	EDI
	Total Sugars	Luff-Schoorl Titration	EDI
LIMING MATERIALS	Neutralising Value	NV/Titration based on SI 1991, No 973	EDI
WHOLE BLOOD	<u>Haematology Tests</u>	Documented In-House Method	
	Haemoglobin Packed cell volume Platelet count Red blood cell count White blood cell count	HACTI -5 using Beckman Coulter A <sup>c</sup> T 5DIFF analyser	EDI, CD
	White blood cell differential count	HDIFF using Microscopy	EDI, CD
OVINE BLOOD	<u>Molecular Biology Tests</u>	Documented In-House PCR Methods	
	Scrapie genotyping	BLOODEXT, 171/136 PCR, 171/136 DIG, 171/136 GEL PCR amplification using Applied Biosystems AB9700 thermal cycler, followed by RFLP analysis using agarose gel electrophoresis	EDI
	Scrapie Genotyping: 154 Codon	SNP detection using TaqMan probes and Real Time PCR using Applied Biosystems 7500	EDI
PORCINE LUNG TISSUE THROAT/NASAL SWABS	<i>Mycoplasma hyopneumoniae</i> by DNA detection	MYCOPCR PCR amplification for lung tissue or nested PCR for throat/nasal swabs using Applied Biosystems AB9700 thermal cycler, followed by PAGE	EDI
TONSIL/THROAT SWABS (Pigs)	Detection of <i>Actinobacillus pleuropneumoniae</i> APP 1V toxigene (DNA)	APP 1V nest PCR Nested PCR using Applied Biosystems AB9700 thermal cycler amplification followed by agarose gel electrophoresis	EDI



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	<u>Molecular Biology Tests</u> (cont'd)		
PORCINE THROAT/NASAL SWABS	<i>Pasteurella multocida</i> by DNA detection	TOXPMP Nested PCR using Applied Biosystems AB9700 thermal cycler amplification followed by agarose gel electrophoresis	EDI
PORCINE SERUM, SEMEN, THROAT SWABS, LUNG TISSUE	Porcine Reproductive and Respiratory Syndrome virus (PRRSV) by RNA detection	PRRSV RT-PCR Reverse Transcriptase Real Time PCR using Applied Biosystems AB 7500	EDI
BOVINE MILK AND SERUM	Detection of Bovine Viral Diarrhoea virus (BVDV) (RNA)	BVDV RT-PCR RNA extraction by magnetic beads followed by Reverse Transcriptase PCR amplification using Applied Biosystems AB7500	EDI
PORCINE POST MORTEM MATERIAL, FAECES, BACTERIAL CULTURES	<i>Brachyspira</i> spp with speciation by DNA detection	BRACPCR PCR amplification using Applied Biosystems AB9700 thermal cycler followed by RFLP analysis using PAGE	EDI
PORCINE FAECES, RECTAL SWABS, POST MORTEM MATERIAL	<i>Lawsonia intracellularis</i> by DNA detection	LAWNEST PCR Nested PCR amplification using Applied Biosystems AB9700 thermal cycler, followed by agarose gel electrophoresis	EDI
BOVINE FAECES AND LIQUID CULTURES	Detection of <i>Mycobacterium avium paratuberculosis</i> (MAP) DNA	MAPReTiPCR DNA extraction by magnetic beads followed by Real Time PCR amplification using Applied Biosystems AB7500	EDI
	<u>Microbiology Tests</u>	Documented In-House Methods	
TISSUES, BODY FLUIDS AND NECROPSY MATERIAL	Microscopy and microbial culture techniques for detecting pathogenic micro-organisms	MCNS: Central nervous system	EDI, STB, CD, INV, ABD, AYR, THU, PER, DUM



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TISSUES, BODY FLUIDS AND NECROPSY MATERIAL (cont'd)	<u>Microbiology Tests</u> (cont'd)	Documented In-House Methods	
	Microscopy and microbial culture techniques for detecting pathogenic micro-organisms (cont'd)	MEME: Ear/mouth/eye fluid/swabs  MMA: Milks  MRES: Respiratory system  MUR: Urine  MANIS: Anaerobic bacteria  MWA: Wounds/abscess swabs/pus  MNMS: Necropsy material/ Miscellaneous samples	EDI, STB, CD, INV, ABD, AYR, THU, PER, DUM  EDI, STB, CD, INV, ABD, AYR, THU, PER, DUM  EDI, STB, INV, ABD, AYR, THU, PER, DUM  EDI, STB, CD, INV, ABD, AYR, THU, PER, DUM  EDI, STB, CD, INV, ABD, AYR, THU, PER, DUM  EDI, STB, CD, INV, ABD, AYR, THU, PER, DUM
	Isolation of <i>Salmonella</i> spp	MSALSCREEN using Selenite or Rappaports (species dependent)	EDI, STB, CD, INV, ABD, AYR, THU, PER, DUM



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ENTERIC SAMPLES	<u>Microbiology Tests</u> (cont'd) Detection of Cryptosporidium oocysts	MCRYPTO(CZN) by microscopy with staining by cold ZN	EDI, STB, CD, INV, ABD, AYR, THU, PER, DUM
ENTERIC SAMPLES, GENITAL SAMPLES, PLACENTAL AND FOETAL SAMPLES	Isolation of <i>Campylobacter</i>	MCAMPY	EDI, STB, CD, INV, ABD, AYR, THU, PER, DUM
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 (SRBT)	EDI, STB, CD, INV, ABD, AYR, THU, PER, DUM
ENTERIC SAMPLES	Isolation of <i>Yersinia</i> spp	MYERS	EDI, STB, CD, INV, ABD, AYR, THU, PER, DUM
ENTERIC SAMPLES	Isolation of <i>Brachyspira</i> spp	MSER	EDI, CD, ABD
ENTERIC SAMPLES	Isolation of Enterotoxigenic <i>E coli</i>	METEC	EDI, STB, CD, INV, ABD
ENTERIC SAMPLES	Detection of Rotavirus	MPAGE using polyacrylamide gel electrophoresis	ABD
ENTERIC SAMPLES	Detection of Rota virus	MENTERELISA by ELISA using Enterasure.	ABD
NEONATAL CALF FAECES	Detection of Coronavirus	MENTERELISA by ELISA using Pathasure 4	ABD
ANIMAL TISSUES AND FAECES	Isolation and confirmation of <i>E coli</i> O157	M0157 using immunomagnetic separation (IMS) and selective plating	INV



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ANIMAL TISSUES AND FAECES (cont'd)	<u>Microbiology Tests</u> (cont'd) Isolation and confirmation of E coli O26	MO26IMS using immunomagnetic separation (IMS) and selective plating	INV
SKIN & HAIR	Isolation of and identification of Dermatophilus	MDERM	EDI, STB, CD, INV, ABD, AYR, THU, PER, DUM
	Isolation of and identification of Dermatophytes	MSHA	EDI, STB, CD, INV, ABD, AYR, THU, PER, DUM
BACTERIAL ISOLATES	Determination of antibiotic susceptibility	MAST based on BSAC guidelines 2009	EDI, STB, CD, INV, ABD, AYR, THU, PER, DUM
LUNG, EYE SWABS, RESPIRATORY TRACT SAMPLES	Detection of respiratory viruses (IBR, P13, RSV)	MFAV using Fluorescent antibody staining	STB, CD, INV, ABD, AYR, THU, PER, DUM
TISSUE SMEARS	Presumptive Chlamydophilus	MMZN by microscopy using modified Ziehl-Neelsen stain	EDI, STB, CD, INV, ABD, AYR, THU, PER, DUM
BLOOD SMEARS	Bacillus anthracis (presumptive)	MANTH by microscopy using polychrome methylene blue stain	EDI, STB, CD, INV, ABD, AYR, THU, PER, DUM
TISSUES, FAECES	Acid fast bacilli including presumptive Johnes AFB	MMYCOB by microscopy using Ziehl-Neelsen stain	EDI, STB, CD, INV, ABD, AYR, THU, PER, DUM



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TISSUES, FAECES (cont'd)	<u>Microbiology Tests</u> (cont'd)		
Mammalian &, Avian Species	Necropsy procedures on carcasses to collect tissue samples for diagnostic examination	VPMFARM & VPMCOMPANION	EDI, STB, CD, INV, ABD, AYR, THU, PER, DUM
EQUINE CLITORAL/URETHRAL SWABS	Presence of CEMO, <i>Klebsiella pneumoniae</i> and <i>Pseudomonas aeruginosa</i>	MCEM using Selective culture based on Horserace Betting Levy Board	STB
FAECAL MATERIAL, TISSUES	Isolation of <i>Mycobacterium avium</i> subspecies <i>paratuberculosis</i> (Map)	Isolation of Map using MTREK liquid culture system	STB
TREATED ANIMAL PROTEIN	Detection, enumeration and confirmation of Enterobacteriaceae	MABPENTERO in accordance with the Animal By-Products (Regulations (ABPR) 2011 and Regulation (EC) 1069/2009 and 142/2011	ABD
	Detection, enumeration and confirmation of Salmonella spp	MABPSALM - in accordance with the Animal By-Products Regulations (ABPR) 2011 and Regulation (EC) 1069/2009 and 142/2011	ABD
SERUM/PLASMA (& MILK)	<u>Serology Tests</u>	Documented In-House Methods	
	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, STB, INV



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SERUM/PLASMA (cont'd)	<u>Serology Tests</u> (cont'd)	Documented In-House Methods	
SERUM/PLASMA	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
	Detection of antibodies to:		
	Bovine Viral Diarrhoea	BVD Ab by ELISA	EDI, INV, STB
(& MILK)	Bovine Viral Diarrhoea	BVD Ab by ELISA	INV
	(MAP) Johnes Disease	JOHNES Ab by ELISA	EDI, STB
	Leptospira hardjo	LEPTOSPIRA by ELISA	EDI, INV
	Infectious Bovine Rhinotracheitis virus (BHV1)	IBR by indirect ELISA	EDI, INV
(& MILK)	Infectious Bovine Rhinotracheitis virus (BHV1)	IBR by indirect ELISA	INV
	Bovine Respiratory Syncytial Virus (RSV)	RSV Ab by ELISA	EDI
	Antibodies to Neospora canium antigen	Neospora by ELISA	EDI
	Parainfluenza Virus Type 3 (PI3)	PI3 Ab by ELISA	EDI
	Infectious Bovine Rhinotracheitis (BHV-1)	IBR gB Ab by competitive ELISA	EDI, INV
	Antibodies to gE Antigen of Bovine Herpes Virus Type 1 (BHV-1)	IBR gE by ELISA	EDI



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SERUM/PLASMA (including pooled samples) (cont.)	<u>Serology Tests</u> (cont'd)	Documented In-House Methods	
	Maedi-visna (MV) & caprine arthritis-encephalitis (CAE)	MV/CAE Ab by ELISA	INV
	Maedi-visna (MV) & caprine arthritis-encephalitis (CAE)	SOP/VSG/SAGIDT MV/CAE Ab by AGIDT screening test	EDI, INV,
SERUM & FOETAL FLUID	Identification of Enzootic Abortion of Ewes (EAE) by detection and quantification of antibodies to <i>Chlamydophila abortus</i>	SOP/VSG/EAECFT By Complement Fixation Test	STB
	Toxoplasma gondii	STOXOLATEX antibody titre by latex agglutination	STB
SERUM/PLASMA	Detection of Antigens:		
EAR NOTCH	Bovine Viral Diarrhoea virus	BVD Ag by ELISA	EDI, INV
	Bovine Viral Diarrhoea virus	BVD Ag by ELISA	EDI
RESULTS OF DIAGNOSTIC TESTS AND POST MORTEM EXAMINATIONS, as detailed in this Schedule	<u>Serology Tests</u>		
	<u>Opinions and Interpretations</u>		
	Diagnosis for the control and prevention of disease in farm and companion animals, either single or multiple	Documented in-house procedures	EDI, STB, CD, INV, ABD, AYR, THU, PER, DUM
END			