SRUC

SRUC Veterinary Services

Price List

2026

Farm animals

Companion animals

Health Schemes

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CONTENTS

	Page
Contact details	2-3
Welcome	4-5
Livestock (Farm Animal) Diagnostic Services	6-22
Livestock (Farm Animal) Sample Collection Guide	6
Health Schemes (PCHS and PSGHS)	24-27
Companion Animal	28-47
Companion animal index	48
Companion Animal Sample Collection Guidelines	49-53
C-QAS (External Quality Assessment Scheme)	54
Standards of Service	55

CONTACT DETAILS

Central telephone number for all departments (excluding Health Schemes): 0131 535 3130

Diagnostic Submissions (Farm and Companion Animal)

SRUC Veterinary and Analytical Laboratory
Pentlands Science Park, Bush Loan, Penicuik, Midlothian, EH26 0PZ
Email: VSEnquiries@sruc.ac.uk

Farm Animal Post-mortem Service

Aberdeen Disease Surveillance Centre
Mill of Craibstone, Bucksburn, Aberdeen, AB21 9TB
Email: VetServices.North@sruc.ac.uk

Dumfries Disease Surveillance Centre
St Mary's Industrial Estate, Dumfries, DG1 1DX
Email: VetServices.SouthWest@sruc.ac.uk

St Boswells Disease Surveillance Centre
Greycrook, St Boswells, Roxburghshire, TD6 0EQ
Email: VetServices.Central@sruc.ac.uk

Thurso Disease Surveillance Centre
Janetstown, Thurso, KW14 7XF
Email: VetServices.North@sruc.ac.uk

Farm Animal Veterinary Surveillance Hubs

Perth Veterinary Surveillance Hub
Sandpiper House, Ruthvenfield Road, Perth, PH1 3EE
Email: VetServices.Central@sruc.ac.uk

Ayr Veterinary Surveillance Hub
J F Niven Building, Auchincruive Estate, Auchincruive, Ayr, KA6 5HW
Tel: 0131 535 3130 Email: VetServices.SouthWest@sruc.ac.uk

Inverness Veterinary Surveillance Hub
RAVIC, 9 UHI Campus, Inverness IV2 5NA
Tel: 0131 535 3130 Email: VetServices.North@sruc.ac.uk

Health Schemes

Premium Cattle Health Scheme (PCHS)
Greycrook, St Boswells, Roxburghshire, TD6 0EQ
Tel: 01835 822456 Email: HealthSchemes@sruc.ac.uk
www.cattlehealth.co.uk

Premium Sheep and Goat Health Schemes (PSGHS)
Greycrook, St Boswells, Roxburghshire, TD6 0EQ
Tel: 01835 822456 Email: HealthSchemes@sruc.ac.uk
www.sheepandgoathealth.co.uk

Other services

C-QAS
(External quality assessment scheme for point of care analysers)
Pentlands Science Park, Bush Loan, Penicuik, Midlothian, EH26 0PZ
Tel: 0131 535 3130 Email: c-qas@sruc.ac.uk
www.CQAS.co.uk

Health Planning (Herdplan)
Pentlands Science Park, Bush Loan, Penicuik, Midlothian, EH26 0PZ
Tel: 0131 535 3130 Email: HerdPlan@sruc.ac.uk
www.herdplan.co.uk

CPD for Vets
Pentlands Science Park, Bush Loan, Penicuik, Midlothian, EH26 0PZ
Tel: 0131 535 3130 Email: cpdforvets@sruc.ac.uk

Visit our website at: www.sruc.ac.uk/vets

Welcome

Welcome to the SRUC Veterinary Services Service Guide for 2025/26.

We offer independent, impartial and comprehensive clinical pathology testing for most animal species, as well as a post-mortem examination service offered at multiple locations across Scotland. We are committed to working in partnership with veterinary surgeons and farmers, providing high quality results combined with advice and support. In addition to our PM and clinical pathology services, we carry out disease surveillance activities on behalf of Scottish Government to detect new and emerging diseases and monitor trends in existing ones. All SRUC Veterinary Services' income helps to fund SRUC's mission to benefit Scotland's natural economy.

Sample submission guidelines

To enable us to handle samples efficiently please follow the guidelines below:

- Please label all samples
- Ensure lids of screw pots are tight. If there is a need to further seal tubes we recommend using electrical insulation tape.
- Ensure all sharps have been removed from the samples and package. This particularly refers to hypodermic needles.
- Please identify samples from patients on chemotherapy drugs by recording on the submission form, as such samples require special handling to comply with health and safety regulations.
- Package samples in accordance with Post Office regulations.
- Please refer to the **Sampling Guide** on our website for livestock sampling.

Payment and prices

Payment terms are available on request. If these alter, we will inform you of the change. All prices are in pound sterling and are subject to VAT, which will be added to your invoice at the prevailing rate.

Results

Your veterinary practice, your clients and their livestock matter to us. We endeavour to report test results as rapidly as possible and approximate turnaround times (working days) are given for guidance. These apply from date of receipt at the testing laboratory. Results are sent by email.

We will only provide results to the submitting veterinary surgeon, unless express written permission has been given to report to the owner or other third party, for individual cases. This does not apply to livestock health schemes.

Litigation cases require specific procedures to ensure appropriate chain of custody; please advise in advance if this is the case.

Quality

We are a United Kingdom Accreditation Services (UKAS) accredited laboratory, and the majority of our tests are accredited to the internationally recognised ISO/IEC 17025 standard for laboratory competence. Our farm animal diagnostic testing is carried out under the UKAS accreditation certificates (accreditation nos. 2239 and 7624). The current schedule of accreditation is available in the UKAS website.

Where tests are subcontracted to outside laboratories preference is given to those holding UKAS accreditation. Where this is not possible, laboratories are selected for speciality and expertise. Most tests are undertaken at our central laboratory. For further information contact your local DSC.

2239
7624

Our list of test methods is available at test-method-list-veterinary-services-february-2025.pdf

Our complaints handling procedure is available at Complaints handling procedure | SRUC under section on sending samples.

Disease Surveillance and Research

We may wish to use samples anonymously for further disease surveillance or research work.

Samples from the European Union

Paperwork required for diagnostic samples from the European Union is available at
SRUC Veterinary Diagnostics | Submission forms

Contact Us

Please contact SRUC Veterinary and Analytical Laboratory on 0131 535 3130 if the test you require is not listed here.

For any Livestock Health Schemes related enquiries, please call 01835 822456.

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Livestock (farm animal) Diagnostic Services

Contents

	Page
Microbiology	7
Mycotoxin testing	7
Parasitology	8
Biochemistry	9-10
Haematology	10
Biochemistry profiles	10-11
Serology	12-13
Testing for BVD	14
Molecular biology	15-16
Enteritis	17
Mastitis	18
Scrapie gene testing	18
Urinalysis	18
Skins	18
Respiratory disease	19
Reproductive failure	20
Fertility examinations	20
Post-mortem examinations	21-22
Histopathology and cytology	23

Sample collection guidelines for farm animals available srucvs-sampling-guide.pdf

Microbiology (Sample collection guidelines for farm animals available at srucvs-sampling-guide.pdf)				
Profile/Test	***Samples***	***Turn around (working days)***	***Nos***	***Price £***
Bacterial culture[A] (and antibiotic sensitivity if appropriate)	Various	2-5	1	36.90
Clostridial toxin ELISA - per toxin	Intestinal content	Day after test	1	35.25
Preparation and examination of smears[A]	Faeces/urine (min 2ml), tissue	<2	1	21.10
Salmonella screen[A] (Turn around will be more than 3 days where a Salmonella is found)	Faeces/swab	<3	1-9 10+	27.55 24.95
Coronavirus (ELISA) [A]	Faeces	Day after test	1	21.20
Rotavirus (PAGE) [A]	Faeces	Day after test	1	34.20
Serotyping bacterial Isolates				
Serotyping bacterial Isolates	Isolates, e.g. Erysipelas	<10	1	63.35
Streptococcus suis serotyping (whole genome sequencing)	Isolate	<28	1	81.65
Fluorescent antibody tests				
Clostridia[A], per antigen (C. novyi, C. septicum, C. sordellii, C. chauvoei)	Tissue	<2	1	41.10

In the tables the following applies: Superscript A = Accredited to ISO 17025

Parasitology

Profile/Test *(All WEC's include coccidial oocyst count)*	***Samples***	***Turn around (working days)***	***Nos***	***Price £***
Camelid worm egg count[A]	Faeces min 10g	4	1	36.10
Comprehensive parasitology (worm egg, fluke egg check, lungworm larvae examination)	Faeces min 14g	2-3	1-3 4+	49.90 39.50
Giardia	Faeces min 1g	2-3	1	19.75
Grouse caecal worm count	Grouse caecae	7	1	31.00
Haemonchus contortus egg ID (PNA including worm egg count)	Faeces min 6g	7	1	22.90 (+18.20)
Species identification of ovine coccidia (+ coccidial oocyst count) (individual/ bulk worm egg count)	Faeces min 6g *(3g for count, 3g for species ID)*	7	1	49.90 (+18.20/ 33.80)
Species identification of bovine coccidia (+ coccidial oocyst count) (individual/ bulk worm egg count)	Faeces min 6g *(3g for count, 3g for species ID)*	2	1	22.90 (+18.20/ 33.80)
Individual liver fluke coproantigen ELISA	Ovine faeces min 0.5g. Bovine faeces min 2g *(fresh as possible)*	7	1-9 10+	15.80 13.60
Bulk liver fluke coproantigen ELISA (10 samples)	Max. 10 faecal samples advised *(fresh as possible)*	7	1	28.70
Bulk fluke egg check (10 samples)	Faeces min 3g from each animal	2	Bulk (basic)	33.80
Individual fluke egg check	Faeces min 4g	2-3	1-3 4+	19.45 15.20
Lungworm larvae examination	Faeces min 10g	2-3	1-3 4+	18.20 15.80
Individual worm egg count and fluke egg check	Faeces min 4g	2-3	1-3 4+	34.00 23.60
Worm egg count	Faeces min 3g	2-3	1-3 4+	18.20 15.80
Bulk worm egg count (10 samples) Added bulk fluke egg check	Faeces min 3g from each animal	2-3	Bulk Added fluke	33.80 +15.20

Please note: DO NOT POOL SAMPLES for bulk worm egg count and/or bulk fluke egg check prior to submission. A maximum of ten samples from individual animals is recommended per pool.

Biochemistry (Sample collection guidelines for farm animals available at srucvs-sampling-guide.pdf)				
Profile/Test	***Samples***	***Turn around (working days)***	***Nos tests***	***Price £/test***
Routine biochemistry				
Total protein, albumin, globulin, sodium, potassium, chloride, calcium, magnesium, phosphate, urea, creatinine, glucose, beta-hydroxybutyrate, cholesterol, bilirubin, CK, AST, ALT, GDH, GGT, ALP, amylase, lipase *(All tests listed above are accredited)*	Serum/plasma *(except glucose-fluoride plasma)*	1-2	1 2-3 4+	10.95 6.85 5.90
LDH, ZST	Serum Min 0.5ml	<5	1 2-3 4+	9.80 6.10 5.90
Copper[A] (serum or plasma acceptable - different reference ranges)	Serum/Plasma min 0.5ml	5	1 2+	14.05 12.90
Fibrinogen	Citrate/EDTA	<5	1	34.85
GSH-Px[A]	Whole heparinised	5	1 2+	15.10 10.60
Haptoglobin	Serum	<5	1	23.10
Manganese[A]	Whole heparinised min 1ml	2-5	1	23.40
Pepsinogen	Serum/plasma min 0.5ml	4-5	1	20.80
Vitamins A or E	Serum/plasma min 0.5ml	4-5	1	28.50
Lead[A]	Whole heparinised	1-2	1	25.50
NEFA[A]	Serum only	1-2	1	11.45
Vitamin B12[A]	Serum/plasma	3-4	1	19.45
Zinc[A] *([A]Tubes must not contain rubber of gel components)*	Serum *(Min 0.5ml)*	<5	1	27.55
Special biochemistry				
Bone analysis	Bone 5g *(remove fat and meat)*	2-4	1	89.50
Inorganic iodine	Plasma or serum *(plasma preferred)*	Up to 15	1	29.65
Progesterone	Serum/plasma *(plasma preferred)*	1-2	1	36.90
Tissue analysis for lead[A]	Tissue min 5g	5	1	43.70
Tissue analysis for copper[A] or selenium[A]	Tissue min 5g	5	1	49.40
Tissue analysis for cobalt	Tissue min 5g	5	1	49.40
Tissue analysis for copper, cobalt and selenium (Package)	Tissue min 5g	5	1	85.05

See page 11 for recommended profile. Tests can be substituted if required.

Haematology (Sample collection guidelines for farm animals available at srucvs-sampling-guide.pdf)			
Profile/Test	***Samples***	***Turn around (working days)***	***Price £***
Full haematology additional to biochemistry profile[A]	EDTA blood	Day of receipt	20.80
RBC, PCV, Hb, WBC (all four tests)[A]	EDTA blood	Day of receipt	17.15
WBC and differential[A]	EDTA blood	Day of receipt	22.35
Full haematology (RBC, PCV, Hb, WBC and differential)[A]	EDTA blood	Day of receipt	31.20
Examination for blood parasites	EDTA blood, blood smear	Day of receipt	30.70

Biochemistry profiles – see page 11 for recommended profiles (Sample collection guidelines for farm animals available at srucvs-sampling-guide.pdf)			
Profile/Test	***Samples***	***Turn around (working days)***	***Price £***
Herd metabolic profile[A] - 10 parameters	Serum/plasma + heparin + fluoride-plasma	5	18 animals 490.25
Production audit[A] - 5 parameters	Serum/plasma + heparin	1-2	12 animals 253.55
Fertility audit[A] - 6 parameters	Serum/plasma + heparin	5	12 animals 295.80
General audit[A] - 10 parameters	Serum/plasma + heparin	5	12 animals 422.75
Ewe nutrition [A] (BOHB + Urea)	Serum/plasma	1	10 animals 52.10

Suggested biochemistry profiles – trace element/ill thrift/minerals/production

(Sample collection guidelines for farm animals available at srucvs-sampling-guide.pdf)

	1	+4	Cu	Vit B12	GSH-Px	Vit E	CPK	Pepsinogen	Ca	Mg	P	AST	Albumin	Globulin	Urea	BOHB	NEFA	Glucose	Creatinine	Bile acid	GGT	GLDH
Bovine trace element	22.90	17.45	▪		▪																	
Bovine ill thrift profile	54.80	49.10	▪		▪			▪					▪	▪							▪	▪
Bovine mini metabolic profile	25.80	24.85								▪			▪		▪	▪	▪					
Ruminant myopathy profile	40.75	33.80			▪	▪	▪															
Ruminant mineral status*	14.55	13.75							▪	▪	▪											
Downer cow profile	24.95						▪		▪	▪	▪	▪			▪							
Fatty liver profile	23.80	21.00										▪				▪	▪	▪				
Ruminant energy/protein status	25.80	24.85											▪	▪	▪	▪	▪					
Ewe metabolic disease profile	15.60	14.05							▪	▪						▪						
Ovine trace element	37.75	33.05	▪	▪	▪																	
Ovine ill thrift profile	70.95		▪	▪	▪			▪					▪	▪							▪	▪
Individual clinical profile	66.55						▪		▪	▪	▪	▪	▪	▪	▪	▪		▪	▪	▪	▪	▪
Herd profiles – see page 10																						
Fertility audit	295.80		▪		▪								▪		▪	▪	▪					
General audit	422.75		▪		▪			▪					▪	▪	▪	▪	▪			▪		▪
Herd metabolic profile	490.25		▪		▪					▪	▪		▪	▪	▪	▪	▪	▪				
Production audit	253.55												▪	▪	▪	▪	▪					
Ewe nutrition	52.10														▪	▪						

**Haematology at the discounted rate of £20.80 per animal can be added to any of the above. Prices exclude VAT.*

Serology

Unless indicated otherwise listed tests detect antibody to pathogens involved.
Only at peak times are tests run as frequently as indicated.

Profile/Test	*Samples*	*Turn around (working days)*	*No of test*	*Price £/each sample*
Cattle				
Bovine coronavirus	Serum/plasma	<7d	1	21.20
Cattle lungworm (Dictyocaulus viviparus)	Serum	<8d	1-9 10+	30.45 23.90
Erysipelas	Serum	<7d	1-9 10+	20.80 18.00
Liver fluke	Serum	<7d	1	10.40
IBR (BHV-1 gB)[A]	Serum	<7d	1	7.50
IBR (BHV-1 gE)[A]	Serum	<7d	1-9 10+	11.45 10.65
Johne's (MAP)[A]	Serum	<7d	1-39 40+	6.75 6.05
Leptospira hardjo[A]	Serum	<7d	1	7.85
Mycoplasma bovis	Serum	<7d	1	10.40
Neospora caninum[A]	Serum	<7d	1-39 40+	9.25 8.20
Parainfluenza 3 (PI3) [A]	Serum/plasma	<7d	1	8.85
Q-fever	Serum	<7d	1-9 10+	15.60 11.45
Respiratory syncitial virus (RSV) [A]	Serum	<7d	1	8.85
Schmallenberg virus (SBV)[A]*	Serum	<7d	1-9 10+	10.40 9.15
Dairy Cow – milk serology				
Liver fluke	Milk with preservative	<7d	1	11.25
IBR (BHV-1 gB)[A]	Milk with preservative	<7d	1	12.50
IBR-gE (bulk milk)	Milk with preservative	<7d	1	12.50
Mycoplasma bovis	Milk with preservative	<7d	1	10.40
Johne's (MAP)	Milk with preservative	<7d	1	7.20
Leptospira hardjo[A]	Milk with preservative	<7d	1	12.50
Schmallenberg virus [A] (SBV)*	Milk with preservative	<7d	1	11.65
See also BVD milk tests page 14 and Mastitis milk tests page 18				

* Abortion packages are available with Schmallenberg serology

Sheep and goats				
Border disease	Serum	<7d	1-9 10+	11.95 10.90
CAE[A]	Serum	<7d	1-9 10+	11.25 8.20
CLA	Serum	<7d	1-9 10+	12.50 10.60
Chlamydia abortus (EAE) ELISA[A]	Serum	<7d	1-9 10+	12.05 10.40
Erysipelas	Serum	<7d	1-9 10+	20.80 18.00
Fasciola hepatica	Serum	<7d	1	10.40
Johne's (MAP)[A]	Serum	<7d	1-39 40+	6.75 6.05
Louping ill	Serum	<12d	1-9 10+	13.00 11.85
Maedi visna [A] (MV)	Serum	<7d	1	11.25
Q-fever	Serum	<7d	1-9 10+	15.60 11.45
Schmallenberg virus [A] (SBV)	Serum	<7d	1-9 10+	10.40 9.15
Sheep scab	Clotted blood	<10d	1	13.50
Toxoplasma[A]	Serum	<7d	1-9 10+	12.15 10.80
Pigs				
Erysipelas	Serum	<7d	1-9 10+	20.80 18.00
Porcine Salmonella	Serum	<10d	1	6.95
Porcine parvovirus	Serum	<10d	1	15.60
Porcine respiratory coronavirus/TGE (non-diff)	Serum	<7d	1	16.55
PRRS ELISA	Serum	<7d	1	8.30
PRRS Confrimatory ELISA	Serum	<7d	1	20.00
PRRS tissue culture (IPMA)	Serum	10d	1	39.50
Swine flu (4 strains) HAIT	Serum	3d	1	39.50
Swine flu A ELISA	Serum	<7d	1	8.40
M. hyopneumoniae ELISA	Serum	5d	1	8.10

If the test is not listed, please contact us as we cater for most species.

Testing for BVD			
Profile/Test	***Samples***	***Turn around (working days)***	***Price £***
BVD antibody – blood[A]	Serum	7**	5.50
BVD antibody – milk[A]	Milk with preservative	7	12.50
BVD antigen – blood [A] (aged ≥ 4 weeks)	Serum	7**	8.40
[1]BVD PCR – individual animal validated aged < 6 weeks[A]	Srum	10	28.60
[1]BVD PCR – individual animal validated aged > 6 weeks[A]	Unopened red top tube	5**	6.05
[1]BVD virus PCR – bulk milk[A]	Milk with preservative	5**	45.35
BVD virus detection in ear tissue[A] (antigen ELISA)	Ear tissue from tag	7	6.50
BVD PCR ear tissue[A] (price depends on tag type)	Ear tissue any age animal	5**	-
BVD PCR in support of a PM	Tissue	5	39.50

* Further test price discounts apply to combined Tag and Test packages via selected Tag companies
[1] Requires dedicated sample for BVD PCR
** From receipt at SRUC Veterinary and Analytical Laboratory
*** Blood samples from calves <4 weeks require individual tests.
N.B. Turnaround times for Health Schemes can be found on PCHS and PSGHS pricelists.

Molecular biology				
Profile/Test	***Samples***	***Turn around*** *(working days)*	***No***	***Price £/sample***
Cattle				
Bovine respiratory extended PCR - 7 agents (BHV-1, PI3, RSV, *M. bovis*, *H. somni*, *P. multocida*, *M. haemolytica*)	Swabs/tissue ideally in VTM	7	1	72.90
Johne's (MAP) PCR[A]	Faeces	<4	1	41.60
MCF virus detection PCR	Heparin/EDTA blood or tissue	7	1	32.55
Schmallenberg virus PCR	Tissue – brain & Spinal cord	7	1	32.55
Sheep				
Border disease virus PCR[A]	Serum	<7	1-49 50+	15.80 12.10
Orf PCR	Scab		1	32.55
Schmallenberg virus PCR	Tissue – brain & spinal cord	7	1	32.55
Tick borne fever PCR	Lung/spleen/lymph nodes in VTM / EDTA blood	<10	1	32.55
Pigs - Please see footnote for pooling information				
APP PCR[A]	Throat swabs, culture	<5	1	78.00
APP toxin gene profiling PCR	Throat swabs, culture	<7	1 2+	117.10 85.90
Atrophic rhinitis PCR[A] (Toxigenic Pasteurella multocida)	Throat swabs	<	1	53.55
Brachyspira PCR[A] (B. hyodysenteriae & B. pilosicoli)	Faeces, cultures, PM material	<4	1 2+	51.25 44.00
E. coli virulence PCR[A] (after culture)	Faeces, intestine	<7	1	54.20
Lawsonia intracellularis PCR[A]	Faeces, intestine	<7	1-3 4+	64.50 62.40
L. intracellularis[A] & B. hyodysenteriae PCR[A]	Faeces	<7	1 2+	93.80 79.25
Mycoplasma hyopneumoniae PCR[A]	Lung tissue, throat swabs, oral fluids*	<4	1	49.60
Porcine circovirus Type 2[A]	Lung tissues, throat swabs, oral fluids*	2-6	1	44.00
Porcine circovirus Type 2 Quantified	Lung tissues, throat swabs, oral fluids*	2-6	1	63.35
PED/TGE virus PCR[A]	Faeces, oral fluids*	2-6	1	44.00
Porcine Deltacoronavirus[A]	Faeces, oral fluids*	2-6	1	44.00
PED/TGE + Porcine Deltacoronavirus[A]	Faeces, oral fluids*	2-6d	1	60.20
PRRS PCR[A]	Semen, serum, lung tissues, throat swabs, blood swabs, oral fluids*	Same day	1	38.25

Strep. suis PCR	Swabs (tonsil, meninges, joint)	<3	1-3 4+	54.20 43.80
Swine influenza PCR[A]	Lung tissues, oral fluids*	2-6	1	56.25
All species				
Mycoplasma DGGE/PCR	Tissue/BAL/ swab in Mycoplasma transport medium	15+	1	88.40

Pooling samples for PCR testing: swabs, semen and faeces up to 5 samples = 1 pool/test.
Tissues: up to 3 samples = 1 pool/test.

*Oral fluid samples to be chilled during shipping.

Enteritis (Sample collection guidelines for farm animals available at srucvs-sampling-guide.pdf)				
Profile/Test	***Samples***	***Turn around (working days)***	***Price £/animal***	
Ruminant enteritis ***(All WECs include a coccidial oocyst count)***				
Adult ruminant enteritis – Salmonella, Johne's serology, worm egg count and fluke egg check	Faeces min 5g (blood red top)	3-5	40.35	
Adult ruminant enteritis – Salmonella, microscopic exam, Johne's, worm egg count and fluke egg check	Faeces	<5	49.90	
Johne's (MAP) PCR in addition to above package *(Bovine accredited/Ovine not accredited)*	Faeces	<4	41.60	
Yearling ruminant enteritis – Salmonella, worm egg count, fluke egg check	Faeces min 4g	3-5	42.20	
Young ruminant enteritis – Salmonella, worm egg count, fluke egg check	Faeces min 3g	3-5	33.80	
Ruminant neonatal comprehensive enteritis – bacteriology and sensitivity, virology, cryptosporidia and coccidial oocyst count (use in support of control programme or where there is a question of product failure)	Faeces min 4g	<5	52.85	
Ruminant neonatal basic enteritis – salmonella, cryptosporidia, coccidial oocyst count (use to inform therapy)	Faeces min 3g	<3	36.60	
Pig enteritis packages				
Brachyspira 1 - PCR and supporting culture	Faeces or intestine	14-21	1 2+	85.50 78.50
Brachyspira 2 - Routine culture[A]	Faeces or intestine (minimise amount of air in sample container)	14-21	1-3 4+	34.20 31.60
Brachyspira PCR on culture plate	Culture plate	14-21	1-3 4+	51.25 44.00
Package 1 (1-5 days) E. coli, cryptosporidia, rotavirus, Salmonella	Faeces	6	47.85	
Package 2 (6 days-weaning) cryptosporidia, rotavirus, coccidia, Salmonella	Faeces min 3g	6	47.85	
Package 3 (post weaning) E. coli, rotavirus, Salmonella, Yersinia	Faeces	6	47.85	
Package 4 (grower/finisher) Brachyspira, Salmonella, Yersinia	Faeces	14-21	62.00	

Mastitis (Sample collection guidelines for farm animals available at srucvs-sampling-guide.pdf)

Profile/Test	*Samples*	*Turn around (working days)*	*Nos*	*Price £*
Mastitis package – all species (bacteriology, antibiotic sensitivity if indicated)	Milk	2-5d	1-3 4+	29.65 26.00
Mastitis herd screen – bacteriology only	Milk	2-5d	1-3 4+	20.30 17.15
Mastitis herd screen – antibiotic sensitivity	Milk	Day after test	1	9.55

Scrapie gene testing – for testing requirements refer to submission form or website www.sruc.ac.uk/vets

Profile/Test	*Samples*	*Turn around (working days)*	*Nos*	*Price £*
Codons 136, 154, 171 (export testing) [A]	EDTA blood	Within 3w of receipt	1-14 15-29 30-49 50-69 70+	43.35 37.15 34.10 29.55 22.25

Urinalysis (Sample collection guidelines for farm animals available at srucvs-sampling-guide.pdf)

Profile/Test	*Samples*	*Turn around (working days)*	*Price £*
Microscopic examination[A]	Urine min 2ml	<2	21.70
Biochemical examination of urine[A]	Urine min 1ml	1	12.60
Calculi analysis	Bladder stone		44.700
Comprehensive examination[A] (includes biochemistry, microscopy, bacteriology and sensitivity)	Urine min 4ml	<5	60.30

Skins (Sample collection guidelines for farm animals available at srucvs-sampling-guide.pdf)

Profile/Test	*Samples*	*Turn around (working days)*	*Price £*
Microscopic examination only	Skin/hair plucks including roots and scabs	1	22.55
Ringworm[A] – microscopy and cultures	Skin/hair plucks including roots and scabs	Microscopy <2 Culture 21 max*	24.95
Orf PCR	Scab		32.55
Comprehensive[A] (microscopy, bacteriology and sensitivity & mycology)	Skin/hair plucks including roots and scabs	Microscopy <2 Culture 21 max* Bact. Sens. 2-5	45.75

Respiratory disease (Sample collection guidelines for farm animals available at srucvs-sampling-guide.pdf)				
Profile/Test	***Samples***	***Turn around (working days)***	***Price £/animal***	
Bovine respiratory extended PCR - 7 agents (BoHV-1, PI3, RSV, *M. bovis*, *H. somni*, *P. multocida*, *M. haemolytica*)	Swabs/tissue ideally in VTM	7	72.90	
Vials or virus transport medium are available from our laboratories				
Bovine respiratory serology				
IBR, RSV[A], PI3[A]	Serum	5	Single sample Paired samples	24.15 50.85
IBR, RSV[A], PI3, BVD[A]	Serum	7	Single sample Paired samples	31.20 60.30
IBR, RSV[A], PI3, M. bovis[A]	Serum	7	Single sample Paired samples	35.25 71.65
IBR, RSV[A], PI3, H. somni	Serum	15	Single sample Paired samples	77.15 149.75
IBR, RSV[A], PI3, BVD[A], M. bovis[A]	Serum	7	Single sample Paired samples	41.60 83.20
IBR, RSV[A], PI3, BVD[A], M. bovis[A], H. somni	Serum	15	Single sample Paired samples	81.10 162.25
Porcine respiratory serology				
M. hyopneumoniae, PRRS, Swine 'flu (Influenza A ELISA)	Serum	5/6	23.40	
Porcine respiratory serology, PRRS, Swine 'flu (Influenza A ELISA)	Serum	5/6	15.60	

Reproductive failure				
Profile/Test	***Samples***	***Turn around (working days)***	***Price £/animal***	
Bovine abortion serology packages				
L. hardjo, BVD, N. caninum	Serum	5	22.55	
L. hardjo, BVD, N. caninum, IBR	Serum	5	29.95	
Ovine/Caprine abortion serology packages				
EAE, toxoplasmosis	Serum	7	1-3 4+	24.25 22.05
Porcine reproductive failure				
L. Bratislava, PRRS and swine 'flu (Influenza A ELISA)	Serum	10	30.45	
L. Bratislava, PRRS and swine 'flu (Influenza A ELISA), Erysipelas, Parvovirus	Serum	10	63.35	

Fertility examinations			
Profile/Test	***Samples***	***Turn around (working days)***	***Price £/sample***
Bacteriology of semen and sensitivity[A]	Semen	<5	33.80
Examination of stained semen slides[A]	Semen	2	21.10
Spermatozoa density	Semen	2	14.05
Campylobacter – culture and ID[A]	Preputial washings or vaginal mucous	10	62.00

Post-mortem examinations – Scottish farms only			
Description	***Turn around (working days)****	***No of animals***	***Price £ per animal***
Cattle			
Over 18 months[A]	1	Per animal	150.80
6-18 months[A]	1	Per animal	124.80
Up to 6 months[A]	1	1 2 3 4+	83.20 65.00 43.30 32.50
Foetuses[A]	2	1 2 3 4+	88.40 70.20 46.80 35.10
Camelids			
All ages	1	1 2 3 4+	133.10 93.60 62.40 46.80
Foetuses[A] (1 dam)	2	Per animal	91.50
Sheep			
All ages[A]	1	1 2 3 4+	83.20 65.00 43.30 32.50
Foetuses[A]	2	1 2 3 4+	60.30 44.20 29.50 26.40
Pigs			
Over 6 months[A]	1	1 2 3 4+	101.40 67.60 45.10 33.80
Under 6 months[A]	1	1 2 3 4+	83.20 65.00 43.30 32.50
Foetuses [A] (1 dam)	2	Per animal	73.20
Deer and goats			
All ages[A]	1	1 2 3 4+	83.20 70.200 46.80 35.10
Foetuses [A] (1 dam)	2	Per animal	60.30

Game birds			
Carcase[A]	1	1 2 3 4+	57.95 56.65 37.75 28.35
Poultry			
Carcase[A]	1	1 2 3 4+	53.25 51.75 34.50 25.90
Other			
Viscera from farmed species (gross examination and appropriate bacteriology)[A]	2	1 2 3 4+	72.80 54.60 36.40 27.30
On-farm PM service			
PMs done by PVS on-farm (any age or species)	As per the tests being carried out	1 2 3 4+	83.20 65.00 46.80 32.50

*Turnaround time refers to the initial reporting of gross PM findings. Completion of additional testing takes on average, around 10 days

Note: Post-mortem charges cover all necessary tests which at the discretion of the SRUCVS veterinarian are required to reach a diagnosis. Additional tests requested by the owner or their veterinary surgeon which fall outwith this definition will be charged for additionally. There is a charge for carcase disposal.
Batch = 2-4 animals/birds or foetuses from 2-4 dams. Where batches are submitted, some tests may be carried out on pooled samples.

Standard examination of bovine foetus includes bacteriology, foetal serology for BVDV and L. hardjo; BVDV antigen, and histopath at the discretion of the VIO. Should you request other tests such as PCR for BoHV1 or BVDV, foetal serology for Neospora and tissue iodine these will be charged at the list price. The cattle abortion package is the standard examination plus maternal serology for BoHV1, BVDV, L. hardjo and Neospora.

Histopathology and cytology (Sample collection guidelines for farm animals available at srucvs-sampling-guide.pdf)				
Profile/Test	***Samples***	***Turn around*** (working days)*	***Price £***	
Aspiration biopsy cytology	Body fluid/tissue	2	34.40	
Fluid analysis (cell count, cytology, protein)	Body fluid	2	43.80	
Fluid analysis (cell count, cytology, biochemistry, bacteriology and sensitivity)	Body fluid	2	59.60	
Histopathological examination (including report and prognosis, where appropriate)	$1cm^3$ tissue blocks#	3-4	First block *(1-3 tissues)* Additional blocks	53.55 12.15 *(Max case charge 206.65)*

*Special services such as bone decalcification and immunochemistry require longer turnaround times; guidance will be provided by histopathologists.

Tissues should be fixed in 5-10 times their own volume of formalin for 48 hours.
They can then be sent in a smaller volume of formalin. Please note: Royal Mail max 50ml.

Health Schemes

Contents

	Page
Premium Cattle Health Scheme	25-26
Premium Sheep and Goat Health Schemes	26
Useful Tests Available Outside Premium Sheep and Goat Health Schemes	27

Premium Cattle Health Scheme

Turnaround Times: blood, milk, tissue tag & faecal PCR samples 5-10 working days.
Submission forms available at www.cattlehealth.co.uk

Annual Membership Fee	***Price £***
Up to 5 diseases (BVD, IBR, Neospora, Lepto, Johne's)	98.80
BVD Membership ***only***	52.50
Up to 5 diseases plus TB Accreditation	135.20
Bovine TB Accreditation ***only***	67.60
Entry Level Bovine TB ***only***	46.80

Profile/Test	***Samples***	***Price £***
Tissue Tests (Keep tags in cool dry place and submit in batches every 2 weeks)		
BVD Antigen*	Ear tissue	PCR Serology
*Tag & Test BVD tissue prices will be set differently according to individual tag suppliers & SRUC		
Please note that we charge £80 to input external laboratory results.		
Blood Tests		
BVD Antibody	Clotted blood	4.60
BVD Antigen	Clotted blood	6.75
BVD PCR Individual animal <6 weeks	Serum	26.85
BVD PCR Pooled Samples (includes individual Antigen tests from positive pools)	Clotted blood	4.40
IBR Antibody	Clotted blood	5.15
IBRgE (Marker Vaccine)	Clotted blood	9.35
Johne's Antibody	Clotted blood	5.45
L hardjo Antibody	Clotted blood	6.55
Neospora	Clotted blood	7.90
Milk Tests (bulk or individual)		
IBR Antibody	Milk	7.50
IBRgE Antibody	Milk	21.85
BVD Antibody	Milk	6.95
BVD PCR	Milk	40.25
Johne's Antibody	Milk	5.40
Neospora	Milk	7.50
L hardjo Antibody	Milk	7.05

Faeces Tests		
Johne's PCR	Faeces	37.95
Johne's PCR - pooled for up to 5 samples	Faeces	57.20
Pen/Sale Health Declaration Cards (Allow 2 weeks)	**Member**	**Non-Member**
Individual testing must be carried out within 3 months of sale	10.90	20.80

Premium Sheep and Goat Health Schemes

Turnaround Times for MV/CAE/EAE/Johne's: 5-17 working days. PSGHS submission form available at www.sheepandgoathealth.co.uk

MV/CAE Accredited Membership	***Price £***	
Annual fee charged according to flock/herd size animals aged 18 months and over	1 -10 11-50 51+	83.20 119.60 187.20
Profile/Test	***Samples***	***Price £***
MV/CAE	Clotted blood	3.95
MV retest	Clotted blood	13.60
EAE (available to members of the MV Accreditation Scheme)	Clotted blood	3.85
EAE Accredited Membership	***Price £***	
Annual fee charged according to ewes put to ram	0-75 76-150 151-250 251+	3.85/ewe for small flocks 176.80 260.00 364.00
Johne's Accredited Membership		
Profile/Test	***Samples***	***Price £***
All animals over 12 months of age	Clotted blood	5.45
Johne's Antibody	Milk	5.50
Johne's PCR (individual)	Faeces	37.95
Johne's PCR (pool of up to 6 pooled in lab)	Faeces	56.70
Scrapie Monitoring Membership		
Annual fee if PSGHS Member Annual fee if non-Member		62.40 83.20

PSGHS Monitoring Scheme Samples MUST be collected by vet & received at least 6 weeks before first sale

Membership	***Price £***	
Flat fee for one or both diseases	52.00	
Profile/Test	***Samples***	***Price £***
MV/CAE	Clotted blood	3.95
Johne's (PCR pool of up to 6 pooled in lab)	Faeces	56.70

Useful Tests Available Outside Premium Sheep and Goat Health Schemes			
Profile/Test	***Samples***	***Price £***	
Scrapie Full Genotyping (136/154/171) Discounted price for samples	EDTA blood	1-14 15-29 30-49 50-69 70+	43.35 37.15 34.10 29.55 22.25
Test Packages (flock/herd screens)			
Bulk Worm Egg Count Bulk fluke egg check (added to worm egg count)	Faeces Please note: DO NOT POOL SAMPLES for bulk worm egg count and/or bulk fluke egg check prior to submission. A maximum of ten samples from individual animals is recommended per pool.	33.80 33.80	
Pre/Post Sale Testing			
Border Disease Antibody	Clotted blood	1-9 10+	11.95 10.90
Border Disease PCR	Clotted blood	1-49 50+	15.80 12.10
CLA	Clotted blood	1-9 10+	12.50 10.60
Johne's Antibody	Clotted blood	1-39 40+	6.75 6.05
Liver Fluke Antibody	Clotted blood	10.40	
Sheep Scab Antibody	Clotted blood	13.50	
IMPORTANT: Please send in an extra blood tube and use our standard Farm Diagnostic Submission Forms for tests outside the PSGHS Veterinary diagnostics | SRUC			

SRUC

Capital Diagnostics / Companion Animal Service

Contents

	Page
Microbiology and Parasitology	29
General/miscellaneous Microbiology	29
Cardiorespiratory disease microbiology	29
Ear microbiology	29
Eye microbiology	30
Faecal tests - microbiology/parasitology/miscellaneous	30
Faecal/diarrhoea packages	31
Skin microbiology/parasitology	32
Infectious disease – canine – molecular/serology	33
Infectious disease – feline – molecular/serology	33
Infectious disease – equine – molecular/serology	34
Infectious disease – small mammal/avian – molecular/serology	34
Urinary tract tests – microbiology/biochemistry/cytology	35
Clinical chemistry, endocrinology, haematology	36
Haematology & coagulation products	36
Immunological products	36
Therapeutic drug monitoring	36
Biochemistry – individual tests	37
Biochemistry – canine profiles	38-39
Biochemistry – feline profiles	40-41
Biochemistry – equine profiles	42
Biochemistry – small mammal/avian profiles	43
Endocrinology – Adrenal	44
Endocrinology – Thyroid	44
Endocrinology – Reproductive	45
Histopathology & cytology	46
Post Mortem (necropsy) service	47
Companion animal index	48
Sample collection guidelines	49-53
C-QAS - External quality assessment service	54

In the lists the following superscripts are used

S - assay referred to a laboratory external to SRUC Veterinary Services

A - Accredited test

Microbiology & Parasitology

Sample collection guidelines page 49

General/miscellaneous microbiology – see organ specific sections			
Profile/Test	*Samples*	*Turnaround*	*Price £*
Comprehensive bacterial culture - Aerobic/anaerobic cultures[A]	Various	3-10	42.35
Aerobic bacterial culture - Aerobic cultures, antibiotic sensitivity[A]	Various	3-10	36.90
Cerebrospinal fluids culture - aerobic/anaerobic culture[A] Higher isolation rates are obtained if the fluid is injected into a liquid media - provided on request (£8+vat supplementary charge)	CSF	3-10	33.30
Meticillin resistant Staphylococcus spp (MRSA, MRSS, MRSP) only[A]	Various	3-10	27.35
Synovial fluid culture – aerobic/anaerobic culture[A] Higher isolation rates are obtained if the fluid is injected into a liquid media - provided on request (£8+vat supplementary charge)	Synovial fluid/tissue	3-10	33.30
Nasal/tracheal wash[A] – aerobic & fungal cultures	Swab	3-10	39.50

Cardiorespiratory disease			
Profile/Test	*Samples*	*Turnaround*	*Price £*
Angiostrongylus vasorum – serology	Serum 0.5ml	Same day	26.20
Aspergillus culture[A]	Swab/wash	3-10	29.10
Aspergillus serology[S]	Serum 0.5ml	7	66.55
Blood culture – aerobic/anaerobic culture[A] Inject blood into a liquid media (available on request - £10+vat). Clotted blood and blood in routine tubes is unsuitable	Blood	5-10	39.30
Nasal, bronchial, tracheal wash culture[A] Bacteriology, fungal culture	Swab, wash	3-10	39.50
Lungworm Larvae and French heartworm (*A.vasorum*) examination (faecal examination or tracheal washings)	Faeces, Tracheal wash	3-10	19.75
Streptococcus equi culture[A]	Swab, wash	3-5	29.10
Streptococcus equi PCR[S]	Swab	3-7	45.85

Ear			
Profile/Test	*Samples*	*Turnaround*	*Price £*
Bacteria & yeast culture only – 1 ear[A]	Swab	3-10	36.40
Bacteria & yeast culture only – 2 ears[A]	Swab	3-10	46.80
Bacteria & yeast culture with cytology	Swab & Smear	3-10	49.90

Microbiology & Parasitology

See sample collection guidelines page 49

Eye			
Profile/Test	*Samples*	*Turnaround*	*Price £*
Bacterial culture – 1 eye[A]	Swab	3-10	32.25
Bacterial culture – 2 eyes[A]	Swab	3-10	37.45
Chlamydia PCR[S]	Swab (dry)	3-10	58.75
FHV PCR[S]	Swab (dry)	3-10	45.85

Faecal tests			
Profile/Test ***(All WEC's include coccidial oocyst count)***	*Samples*	*Turnaround*	*Price £*
Angiostrongylus vasorum - faecal examination	Faeces 5g	2-3	19.75
Campylobacter screen[A]	Faeces 5g	7-10	28.10
Clostridium difficile[A] – culture	Faeces 5g	2-7	28.10
Cryptosporidia	Faeces 5g	2-3	19.75
Faecal bacteriology[A] **-** Salmonella, Campylobacter, Yersinia, Clostridium spp.	Faeces 5g	7-10	42.35
Faecal bacteriology[A] – primate – Salmonella, Campylobacter, Shigella, Yersinia	Faeces 5g	7-10	57.20
Fluke egg check	Faeces 5g	2-3	19.75
Giardia	Faeces 2g	Same day	19.75
Lungworm larvae examination	Faeces 10g	2-3	19.75
Occult blood[S] - dog/cat feed a non-meat diet for minimum 3 days	Faeces 5g	2-3	32.25
Worm egg count – All species 1-3 samples 4+ samples	Faeces 5g	2-3	 18.70 16.65
Worm egg count & Giardia - companion animal	Faeces 5g	2-3	33.30
Worm egg count (enteric parasites) & Anoplocephala - equine	Faeces 10g	2-3	23.00
Parasitology (enteric parasites) – primate Cryptosporidia, helminths, worm egg count, Giardia, Balantidium	Faeces 5g	2-3	29.75
Rotavirus PAGE[A]	Faeces 5g	6	27.85
Salmonella screen[A]	Faeces 5g	3-5	28.10
Salmonella & Campylobacter screen[A]	Faeces 5g	3-10	33.30
Tritrichomonas foetus PCR[S] – no cat litter in the sample	Faeces 5g	5-14	52.40
Yersinia screen[A]	Faeces 5g	3-5	28.10

Microbiology & Parasitology

See sample collection guidelines page 49

Faecal packages - canine

Profile/Test *(All WEC's include coccidial oocyst count)*	*Samples*	*Turnaround*	*Price £*
Canine faecal analysis 1 – acute or chronic diarrhoea Salmonella[A], Campylobacter[A], worm egg count, Giardia, fat/starch	Faeces 10g	3-10	46.80
Canine faecal analysis 2 – dogs with acute or chronic diarrhoea Salmonella[A], Campylobacter[A], Yersinia[A], Clostridia, worm egg countGiardia, fat/starch	Faeces 10g	3-10	52.00
Canine faecal analysis 3 – dogs with chronic diarrhoea Canine faecal analysis 2, TLI[A], vitamin B12[A], folate[A]	Faeces 10g Serum 2ml	3-1	113.35
Canine faecal analysis 4– dogs with chronic diarrhoea. Faecal analysis 2, total protein[A], albumin[A], globulin, haematology[A]	Faeces 10g Serum 0.5ml EDTA 1ml	3-10	76.95
Canine faecal analysis 5– dogs with chronic diarrhoea Faecal analysis 4, TLI[A], vitamin B12[A], folate[A]	Faeces 10g Serum 2ml EDTA 1ml	3-10	119.60

Faecal packages - feline

Profile/Test *(All WEC's include coccidial oocyst count)*	*Samples*	*Turnaround*	*Price £*
Feline faecal analysis 1 - cats with acute or chronic diarrhoea Salmonella[A], Campylobacter[A], womr egg count, Giardia, fat/starch	Faeces 10g	3-10	46.80
Feline faecal analysis 2 - cats with acute or chronic diarrhoea Salmonella[A], Campylobacter[A], Yersinia[A], anaerobes[A], worm egg count, Giardia, fat/starch	Faeces 10g	3-10	52.00
Feline faecal analysis 3 - cats with chronic diarrhoea Feline faecal analysis 2, Tritrichomonas foetus PCR	Faeces 10g	3-10	105.05
Feline faecal analysis 4 - cats with chronic diarrhoea Faecal analysis 2, total protein[A], albumin[A], globulin, haematology[A]	Faeces 10g Serum 0.5ml EDTA 1ml	3-10	76.95
Feline faecal analysis 5 - cats with chronic diarrhoea Faecal analysis 4, vitamin B12[A], folate[A], PLI	Faeces 10g Serum 2ml EDTA 1ml	3-10	119.60

Faecal packages - equine

Profile/Test *(All WEC's include coccidial oocyst count)*	*Samples*	*Turnaround*	*Price £*
Equine faecal analysis 1 - horses with acute or chronic diarrhoea Salmonella[A], worm egg count (including Anoplocephala)	Faeces 10g	3-10	41.60
Equine faecal analysis 2 - horses with acute or chronic diarrhoea Salmonella[A], Campylobacter, worm egg count (including Anoplocephala) C. difficile	Faeces 10g	3-10	65.50
Foal diarrhoea - foals with acute or chronic diarrhoea Cryptosporidia[A], rotavirus[A], Salmonella[A], Campylobacter[A], C. difficile.	Faeces 10g	3-10	63.45

Faecal packages - avian/exotic/small mammal

Profile/Test *(All WEC's include coccidial oocyst count)*	*Samples*	*Turnaround*	*Price £*
Avian faecal analysis - Salmonella[A], worm egg count	Faeces 10g	3-1	40.55
Primate faecal analysis Full enteric primate worm egg count, Salmonella[A], Campylobacter[A], Yersinia[A], Shigella	Faeces 10g	3-10d	81.10
Small mammal faecal analysis - rabbits, rodents Salmonella[A], Campylobacter[A], worm egg count, Coccidia	Faeces 5g	3-10	81.10

Microbiology & Parasitology

See sample collection guidelines page 49

Skin			
Profile/Test	*Samples*	*Turnaround*	*Price £*
Detection of ectoparasites	Skin scrape	2-3	18.70
Ringworm (dermatophyte) culture[A]	Hair	21	34.30
Detection of ectoparasites & ringworm (dermatophyte) culture Ringworm cultures[A], microscopic examination	Hair Skin scrape	3-10	38.50
Skin bacteriology[A] - aerobic culture	Skin scrape or swab	3-10	36.40
Skin Comprehensive – dog/cat/exotic Bacteriology[A], mycology, detection of ectoparasites[A].	Hair & Skin scrape & Swab	21	45.75
Skin Comprehensive – equine Bacteriology[A] (includes. Dermatophilus), mycology, detection of ectoparasites[A].	Hair & Skin scrape & Swab	21	43.70

Infectious diseases - Molecular/Serology

See sample collection guidelines page 49

Infectious disease - canine			
Profile/Test	*Samples*	*Turnaround*	*Price £*
Aspergillus serology[S]	Serum 1ml	10d	70.25
Babesia Blood film examination PCR	EDTA 0.5ml	Same day 7d	30.70 65.50
Borrelia burgdorferi (Lyme disease) antibody – dog	Serum 0.5ml	Same day	32.75
Borrelia burgdorferi (Lyme disease) antibody[s] – equine	Serum 0.5ml	Same day	39.30
Canine distemper virus PCR[S]	Faeces, Tissue, Urine	7-14d	71.05
Canine parvovirus PCR[S]	Faeces	7-14d	49.10
Ehrlichia canis PCR[S]	EDTA 0.5ml	7d	67.60
Leishmania antibody[S] If monitoring and results to be compared with a previous sample from same animal, please specify if results need to be issued in Test Units or in percentage (%)	Serum 0.5ml	7d	69.70
Leishmania PCR[S]	EDTA 0.5ml, lymph node, skin	7	65.50
Leptospira canicola antibody[S]	Serum 0.5ml	7	31.65
Leptospira icterohaemorrhagiae antibody[S]	Serum 0.5ml	7	21.30
Leptospira - pan species antibody[S] Assess for exposure to *L. canicol, ictero, bratislava, hardjo*	Serum 0.5ml	7	102.95
Leptospira PCR[S]	Urine		72.80
Neospora caninum antibody[S]	Serum 0.5ml	7	47.85
Toxoplasma IgG and IgM antibody[S]	Serum 1ml	3	53.55

Infectious disease – feline			
Profile/Test	*Samples*	*Turnaround*	*Price £*
Chlamydophila PCR[S]	Swab - dry	3-10	45.85
FHV PCR[S]	Swab - dry	21	45.85
FHV and Chlamydophila PCR[S]	Swab - dry	21	64.50
FCoV (FIP) serology[S]	Serum 0.5ml	5	33.90
FCoV (FIP) PCR[S]	Fluid, tissue	7	56.80
FeLV antigen	Serum/EDTA 0.5ml	Same day	30.35
FIV antibody	Serum/EDTA 0.5ml	Same day	26.20
FeLV antigen & FIV antibody	Serum/EDTA 0.5ml	Same day	39.30
FeLV antigen, FIV antibody & FCoV antibody[S]	Serum 1ml	5	67.70
Haemoplasma spp PCR[S]	EDTA 1ml	7	61.15
Toxoplasma IgG and IgM[S]	Serum 1ml	3	53.55
Tritrichomonas foetus PCR[s]	5g faeces - no cat litter	3-14	52.40

Infectious diseases - Molecular/Serology

See sample collection guidelines page 49

Infectious disease – equine			
Profile/Test	*Samples*	*Turnaround*	*Price £*
Anoplocephala antibody (tapeworm)	Serum 1ml	7-14	33.90
Borrelia burgdorferi (Lyme diease) antibody	Serum 1ml	7	39.300
Equine infectious anaemia[S] - Coggins test	Serum 1ml	5	28.40
Equine viral arteritis antibody[S] – if positive then confirmatory testing is required (additional charge £28.40)	Serum 1ml		28.40
Lawsonia intracellularis PCR[A]	Faeces	5	64.50
Louping ill virus[S]	Serum 1ml	5	38.25
Rotavirus PAGE[A]	Faeces	2	27.85
Streptococcus equi antibody[S]	Serum 1ml	2	40.45
Streptococcus equi culture[A]	Swab	5	29.10
Streptococcus equi PCR[S]	Wash/swab	3	45.85

Infectious disease – small mammal/avian			
Profile/Test	*Samples*	*Turnaround*	*Price £*
Avian borna disease virus PCR[S]	Faeces, Heparin blood, tissue		76.45
Chlamydia PCR[S]	Faeces, tissue	10	83.20
Encephalitozoon cuniculi antibody[S] **- IgG** Assesses exposure only	Serum 0.5ml	7	56.80
Encephalitozoon cuniculi antibody[S] **- IgG & IgM** Assesses if active infection	Serum 0.5ml	7	74.35
Encephalitozoon cuniculi PCR[S]	Serum 0.5ml	7	45.85
Rabbit haemorrhagic disease virus PCR[S]	Liver, faeces, EDTA blood, oropharyngeal swab, intestinal contents		95.05
Lawsonia intracellularis PCR	Faeces	3d	93.80

Urinary tract disease

See sample collection guidelines page 49

Urinary tract tests			
Profile/Test	*Samples*	*Turnaround*	*Price £*
Urine SG	Urine 0.2ml	Same day	8.85
Urinalysis - Urine chemistry, wet microscopy Alone Additional to urine bacteriology/cytology	Urine 2ml	1	21.85 17.70
Urine bacteriology[A] - Cystocentesis sample is recommended	Urine 0.2ml	3-10	42.65
Urine cytology	Urine 0.5ml	1	46.80
Urine comprehensive Cytology (giemsa), bacteriology[A], urine chemistry, UP:C[A]	Urine 2ml	3-10	60.30
Urine cortisol:creatinine ratio[A] Screening test for Cushings disease. It does not provide a definitive diagnosis	Urine 0.5ml	Same day	40.55
Urine lead:creatinine ratio Screening test for lead poisoning or quantify lead excretion following treatment	Urine 25ml	1-4	43.70
Urine protein:creatinine ratio[A] Alone Additional to other urine analysis tests	Urine 0.5ml	Same day	21.30 15.60
Urolith analysis (urinary calculi) **-** qualitative	Urolith 5g	3-5	44.70

Clinical Chemistry, Endocrinology & Haematology

See sample collection guidelines page 49

Haematology & Coagulation

Profile/Test		*Samples*	*Turnaround*	*Price £*
Individual tests - PCV[A], RBC[A], Hb[A], WBC[A], platelets[A], reticulocytes[A]		0.5ml E	Same day	10.40
WBC and differential[A]		0.5ml E	Same day	20.80
Full haematology[A] RBC, PCV, Hb, MCV, MCHC, platelets, WBC, differential, reticuloctyes	Alone Additional to a biochemistry profile comprising a minimum of **4** analytes from the **Individual Analyte** list above.	1ml E	Same day	30.70 21.85
Activated partial thromboplastin time (APTT)[S]		1ml C	1-4	31.00
Prothrombin time (OSPT)[S]		1ml C	1-4	30.70
Fibrinogen[S]		1ml C	2	34.85

Immunological tests

Profile/Test	*Samples*	*Turnaround*	*Price £*
Coombs[S] **- canine**	1ml E	2	44.20
Coombs[S] **- feline**	1ml E	2d	44.20

Therapeutic drug monitoring

Profile/Test	*Samples*	*Turnaround*	*Price £*
Bromide[S] – timing of sampling is not important	0.3ml S	2-4	56.70
Digoxin[S] – 2 - 5 hours post-dosing	0.3ml S	2-4	47.85
Phenobarbitone[A] – timing of sampling is not important.	0.3ml S	Same day	32.75

Clinical Chemistry, Endocrinology & Haematology

See sample collection guidelines page 49

Biochemistry – individual tests

Profile/Test	*Samples*	*Turnaround*	*Price £*
Individual analytes[A] Albumin, ALP, ALT, AST, amylase, beta-hydroxybutyrate, bilirubin, calcium, chloride, cholesterol, CK, creatinine, GDH, GGT, globulin (calculated from total protein and albumin), glucose, LDH, lipase, magnesium, phosphate, potassium, SIAP, sodium, total protein, triglycerides, urea See profiles below	0.5 - 2ml S/P	Same day	Nos. tests / Price 1 / 10.10 2 / 13.95 3 / 16.10 4-5 / 18.00 6-10 / 28.20 11-15 / 33.90 16-20 / 38.50
Bile acids[A]	0.3ml S	Same day	15.60
Bile acids stimulation test[A] **-** 0h (after 12h fast) & 2h after feeding Bile Acids stimulation test (additional) -0h	0.3ml S x2	Same day	23.90 17.70
Copper[A] - blood	1ml S/P	1-4	14.75
Copper[A] - tissue 5g is the minimum required for dry matter content to be assessed. If <5g of tissue is provided a wet weight concentration will be provided.	5g liver	1-4	49.40
C-reactive protein[S]	0.5ml S	Same day	21.85
Folate[A]	0.3ml S	Same day	26.00
Fructosamine[A]	0.3ml S	Same day	21.30
GSHPx[A] - whole heparinised blood is required.	0.5ml H	5	15.10
Iron only	0.3ml S	7	27.55
Iron profile - includes iron, TIBC & % saturation	0.5ml S	7	32.75
Lead[A] - whole heparinised blood required	1ml H	1-3	27.55
Manganese[A] whole heparinised blood required	1ml H	1-3 days	27.55
PLI – canine	0.5ml S	Same day	42.65
PLI – feline	0.5ml S	Same day	42.65
Protein electrophoresis[S]	0.5ml S	2-5	41.10
SDMA[S]	0.3ml S	2	38.20
Selenium[A] - whole heparinised blood is required	1ml H	2-7	22.90
Serum amyloid A[S]	0.5ml S	2-4	19.75
TLI (canine)	0.5ml S	Same day	42.65
TLI (feline)	0.5ml S		76.45
Uric acid[S]	0.5ml S	2	21.30
Urine protein:creatinine ratio[A] Incl sediment examination if UP:C high. Alone Additional	0.5ml Ur	1	 21.20 15.60
Vitamin A - blood	0.5ml S/H	2-7	34.55
Vitamin B12 (cobalamin)[A]	0.5ml S	Same day	26.00
Vitamin E - blood	0.5ml S/H	2-7	41.60
Vitamin B12 (cobalamin)[A] **& folate**[A]	1ml S	Same day	45.75
Vitamin B12 (cobalamin)[A]**, folate**[A] **& TLI** - canine	1ml S	Same day	78.50
Vitamin B12 (cobalamin)[A]**, folate**[A] **& PLI** - feline	1ml S	Same day	78.50
Zinc[A]	0.5ml S	2-7	27.55

Clinical Chemistry, Endocrinology & Haematology

Biochemistry profiles

The profiles below are designed to address specific clinical situations and generally follow a problem orientated approach. They are useful in the work-up of a case or for monitoring progression in response to treatment. See tables below for the components of each profile, and also see the endocrinology section. See sample collection guidelines page 49.

Biochemistry profiles - Canine			
Profile/Test	*Samples*	*Turnaround*	*Price £*
Acute abdomen/vomiting Screen for hepatic/renal disease/pancreatitis.	1ml S	Same day	61.15
Addisons disease monitoring Monitor electrolytes and renal function	1ml S	Same day	19.65
Cushings treatment monitoring 1[A] Pre-vetoryl cortisol only - sample taken prior to Vetoryl dosing	0.5ml S	Same day	30.60
Cushings treatment monitoring 2[A] Single cortisol 4-6h post-Vetoryl dosing + electrolytes	1ml S	Same day	38.25
Cushings treatment monitoring 3[A] Cortisol x 2. Collect baseline blood sample 4-6 hours post-Vetoryl dosing. Administer ACTH (min dose 5µg/kg) IV. Collect second serum sample two hours later.	0.5ml S x2	Same day	42.65
Chronic diarrhoea Assess intestinal and pancreatic function	1ml S/H	Same day	77.50
Comprehensive analysis	2ml S 0.5ml F	Same day	40.45
Diabetes mellitus monitoring Assess stability of the diabetic state in the ill animal	1ml S 0.5ml F	Same day	39.30
Fits, collapse – basic Assesses electrolyte, glucose & calcium status in an otherwise well animal	1ml S 0.5ml F	Same day	20.70
Fits, collapse – extended Indicated where seizure/collapse presents with signs of illness.	2ml S 0.5ml F	Same day	28.40
Health Check Basic screen for renal/hepatic disease or a pre-anaesthetic screen	1ml S	Same day	27.35
Kidney	1ml S	Same day	20.70
Liver – basic	1ml S	Same day	24.00
Liver – extended	1ml S	Same day	28.40
Polydipsia	1ml S 0.5ml F	Same day	28.40
Seizure control Assesses therapeutic level of phenobarbitone, and the presence of hepatotoxicity and hyperlipidaemia. Add 1ml serum if bromide is also required	2ml S	Same day	49.20
Skin disease Assesses for multisystemic disease or an endocrinopathy that present with chronic skin disease/alopecia.	2ml S	Same day	57.95

Clinical Chemistry, Endocrinology & Haematology

Biochemistry profiles Canine																	
Parameter	Acute abdo/vomiting	Addisons	Chronic diarrhoea	Comprehensive	Cushings disease 1	Cushings disease 2	Cushings disease 3	Diabetes mellitus	Fits, collapse - basic	Fits, collapse - ext	Health Check	Kidney	Liver- basic	Liver - extended	Polydipsia	Seizure control	Skin
Total protein	√		√	√						√	√			√	√		√
Albumin	√		√	√						√	√	√		√	√		√
Globulin	√		√	√						√	√			√	√		√
Urea	√	√		√						√	√	√		√	√		
Creatinine	√	√		√						√	√	√			√		
ALP	√			√				√		√	√		√	√	√	√	√
SIAP (if ALP elevated)				√				√			√				√		√
ALT	√			√				√		√	√		√	√	√		√
AST																√	
GGT				√									√	√			
Bilirubin	√			√									√	√			
Bile acids	√			√									√	√		√	
Amylase				√													
Lipase				√													
Glucose				√				√	√	√					√		
Fructosamine								√									
Ketones (BOHB)								√									
Cholesterol			√	√				√						√	√	√	√
Triglycerides	√							√								√	
Sodium	√	√		√		√			√	√							
Potassium	√	√		√		√			√	√							
Chloride	√	√		√		√			√	√							
Calcium	√			√					√	√		√			√		
Phosphate				√					√	√		√			√		
CK				√													
Thyroxine (T4)																	√
TSH																	√
Cortisol					√	√											
ACTH Stimulation							√										
PLI	√																
Phenobarbitone																√	
TLI/Vit B12/folate			√														

Clinical Chemistry, Endocrinology & Haematology

See sample collection guidelines page 49

Biochemistry profiles - Feline			
Profile/Test	*Samples*	*Turnaround*	*Price £*
Acute abdomen/vomiting Screen for hepatic/renal disease/pancreatitis.	1ml S	Same day	61.15
Chronic diarrhoea Assess for intestinal damage/pancreatitis	1ml S	Same day	77.50
Comprehensive analysis	2ml S 0.5ml F	Same day	40.45
Diabetes mellitus monitoring Assess stability of the diabetic state in the ill animal	1ml S 0.5ml F	Same day	39.30
Fits, collapse – basic Assesses electrolyte & calcium status in an otherwise well animal	1ml S 0.5ml F	Same day	20.70
Fits, collapse – extended Indicated where seizure/collapse presents with signs of illness.	2ml S 0.5ml F	Same day	28.40
Health Check Basic screen for renal/hepatic disease or a pre-anaesthetic screen	1ml S	Same day	27.35
Kidney Monitor progression of renal disease.	1ml S	Same day	20.70
Liver – basic Monitor progress of hepatic disease	1ml S	Same day	24.00
Liver – extended Monitor progress of hepatic disease	1ml S	Same day	28.40
Old thin cat Screens for renal/hepatic disease and hyperthyroidism.	1ml S	Same day	37.15
Polydipsia	1ml S 0.5ml F	Same day	28.40
Seizure control Assesses therapeutic level of phenobarbitone, and the presence of hepatotoxicity and hyperlipidaemia.	2ml S	Same day	49.20

Clinical Chemistry, Endocrinology & Haematology

Biochemistry profiles Feline													
Assay	Acute abdo/vomiting	Chronic diarrhoea	Comprehensive	Diabetes mellitus	Fits, collapse - basic	Fits, collapse - ext	Health Check	Kidney	Liver- basic	Liver - extended	Old thin cat	Polydipsia	Seizure control
Total protein	√	√	√			√	√			√	√	√	
Albumin	√	√	√			√	√			√	√	√	
Globulin	√	√	√			√	√			√	√	√	
Urea	√		√			√	√	√		√	√	√	
Creatinine	√		√			√	√	√			√	√	
ALP	√		√	√		√	√		√	√	√	√	√
ALT	√		√	√		√	√		√	√	√	√	
AST	√		√	√					√	√			√
GGT			√						√	√			
Bilirubin			√						√	√			
Bile acids	√		√						√	√			√
CK			√										
Amylase			√										
Lipase			√										
Glucose			√	√	√	√						√	
Fructosamine				√									
Cholesterol		√	√	√						√		√	√
Triglycerides			√										√
Sodium	√		√		√	√							
Potassium	√		√		√	√							
Chloride	√		√		√	√							
Calcium	√		√		√	√		√				√	
Phosphate			√		√	√		√				√	
PLI	√	√											
Thyroxine											√		
Phenobarbitone													√
Vit B12/folate		√											

Clinical Chemistry, Endocrinology & Haematology

See sample collection guidelines page 49

Biochemistry profiles - Equine			
Profile/Test	*Samples*	*Turnaround*	*Price £*
Comprehensive analysis	2ml S 0.5ml F	Same day	40.45
Equine metabolic syndrome Assess for pre-laminitic metabolic syndrome/insulin resistance. Consider adding endogenous ACTH (1ml EDTA plasma required)	3ml S 0.5ml F	1	55.75
Health Check Basic screen for renal/hepatic disease or a pre-anaesthetic screen	1ml S	Same day	27.35
Kidney	1ml S	Same day	25.15
Liver	1ml S	Same day	28.40
Rhabdomyolysis/myositis Includes assessment for myopathy	1ml S	Same day	28.40
Weight loss	1ml S 0.5ml F	Same day	28.40

Biochemistry profiles Equine							
Assay	Comprehensive	Equine metabolic syndrome	Health Check	Kidney	Liver	Rhabdomyolysis / Myositis	Weight loss
Total protein	√		√	√	√		√
Albumin	√		√	√	√		√
Globulin	√		√	√	√		√
Urea	√		√	√			√
Creatinine	√		√	√		√	√
ALP	√		√		√		√
Intestinal ALP	√						√
GDH	√		√		√		√
GGT	√		√		√	√	√
LDH	√		√		√	√	√
Bilirubin	√				√		
Bile acids	√				√		
AST	√				√	√	
CK	√					√	
Triglycerides	√	√			√		√
Glucose	√	√					√
Sodium	√			√		√	
Potassium	√			√		√	
Chloride	√			√		√	
Calcium	√			√		√	
Phosphate	√			√		√	
Magnesium						√	
Insulin		√					

Clinical Chemistry, Endocrinology & Haematology service

See sample collection guidelines page 49

Biochemistry profiles – Small Mammal/Avian			
Profile/Test	*Samples*	*Turnaround*	*Price £*
Avian comprehensive	0.5ml S 0.25ml F	Same day	38.25
Mammal health check	1ml S 0.5ml F	Same day	24.00
Mammal comprehensive	2ml S 0.5ml F	Same day	38.25
Primate comprehensive	2ml S 0.5ml F	Same day	49.20

	Small mammal		Avian	Primate
Assay	Health Check	Comprehensive	Comprehensive	Comprehensive
Total protein	√	√	√	√
Albumin	√	√	√	√
Globulin	√	√	√	√
Urea	√	√		√
Creatinine	√	√		√
ALP	√	√		√
ALT	√	√		√
GGT	√		√	√
AST	√	√	√	√
BA	√	√	√	√
Bilirubin	√			√
CK	√	√	√	
Glucose	√	√	√	√
Cholesterol	√		√	√
Amylase	√			
Sodium	√		√	√
Potassium	√		√	√
Chloride	√		√	√
Phosphate	√		√	√
Calcium	√		√	√
Uric acid			√	

Clinical Chemistry, Endocrinology & Haematology service

See sample collection guidelines page 49

Adrenal endocrinology

Profile/Test	*Samples*	*Turnaround*	*Price £*
ACTH - endogenous[S] – centrifuge and chill the separated EDTA plasma immediately and submit within 24 hours	0.5ml EDTA plasma	Same day	41.60
Cortisol[A]	0.5ml S	Same day	30.70
Addisons disease monitoring - Monitor electrolytes and renal function	1ml S	Same day	19.65
ACTH stimulation test[A] **– canine** Sample at 0 &2h after iv ACTH.	0.5ml S x2	Same day	42.65
Cushings treatment monitoring 1[A] Pre-vetoryl cortisol only - sample taken prior to Vetoryl dosing	0.5ml S	Same day	30.60
Cushings treatment monitoring 2[A] Single cortisol 4-6h post-Vetoryl dosing + electrolytes	1ml S	Same day	38.25
Cushings treatment monitoring 3[A] Blood sample 4-6 hours post-Vetoryl dosing and 2h after aministration of ACTH (min dose 5µg/kg) IV.	0.5ml S x2	Same day	42.65
Dexamethasone suppression test[A] **- low dose – canine** Sample at 0, 3 & 8h after after IV dexamethasone (0.01-0.015mg/kg)	0.5ml S x3	Same day	50.45
Dexamethasone suppression test[A] **- low dose - feline** Sample at 0, 3 & 8h after after IV dexamethasone (0.15mg/kg)	0.5ml S x3	Same day	50.45
Urine cortisol:creatinine ratio Screening test for cushings.	1ml urine	Same day	40.55

Thyroid endocrinology

Profile/Test	*Samples*	*Turnaround*	*Price £*
Total T4[A] Additional to a profile comprising **4+ parameters**	0.3ml S	Same day	22.90 15.60
Total T4[A] pre + 6-8h post dosing with thyroid supplement	0.3ml S x2	Same day	41.60
TSH[A]	0.3ml S	Same day	31.20
Total T4[A] **and TSH**[A]	0.5ml S	Same day	44.70

Clinical Chemistry, Endocrinology & Haematology service

See sample collection guidelines page 49

Reproductive endocrinology			
Profile/Test	*Samples*	*Turnaround*	*Price £*
Oestradiol[S]	1ml S	7	70.70
Oestrogen - urinary[S] - Mare pregnancy test Sample >150d of pregnancy	1ml S	7	36.00
Oestrone sulphate[S] - Mare pregnancy test Sample >120d of pregnancy	1ml S	7	40.55
Oestrone sulphate[S] **–** Cryptorchidism Unsuitable for horses <3 years old or donkeys	1ml S		65.50
Ovarian Remnant Detection 1[S] **– canine/feline** To detect ovarian tissue in bitches/cats not showing signs of oestrus Inject 0.32µg IV of GnRH (Buserilin). Collect 2ml of serum 2-3 hours after administering GnRH and submit for **oestradiol** assay. Baseline sample is not generally required although some protocols recommend its inclusion.	1ml S	7	Single 2-3h sample only 70.70 0h & 2-3h sample 109.20
Ovarian Remnant Detection 2[A] **– canine/feline** To detect ovarian tissue in bitches/cats that show signs of oestrus Inject 200-500iu/dog or 200iu/cat hCG (chorulon) IM. Sample on day 0 (optional) and day 10-14 and submit for **progesterone** assay. Baseline sample may not be required although some protocols recommend its inclusion. In bitches assessing progesterone 14-21 days after onset of signs of proestrus can be diagnostic in some cases.	1ml H	Same day	Single 10-14d sample only 36.90 0d & 10-14d sample 71.25
PMSG[S] - Mare pregnancy test - sample 45-90d of pregnancy	0.3ml S	7	40.40
Progesterone[A] **– ovulation detection** Take blood samples from day 8 after prooestrus starts and continue every 2 days until ovulation is detected. Be aware that on very rare occasions prooestrus may be as short as 4 days, and thus testing at 8d could be too late.	1ml H	Same day	36.90
Testosterone[S]	2ml S		40.55
Cryptorchidism – hCG stimulation test[S] **– canine, feline, equine** Inject 100-300iu/cat, or 200-500iu/dog or 6000iu/horse of hCG (chorulon) IV. Collect blood sample 1-2 hours later. Assay testosterone. Baseline sample is not generally required although some protocols recommend its inclusion.	2ml S	7	Single 2h sample only 40.55 0h & 1-2h sample 74.25

Histopathology & Cytology service

See sample collection guidelines page 49

Histopathology/Cytology			
Test	*Samples*	Turnaround	*Price £*
Histopathology – 1-3 tissues (not brain)	Fixed tissue	1-2	53.55
Histopathology - additional tissues	Fixed tissue	1-2	11.45
Histopathology – brain (+/- spinal cord)	**Fixed tissue**	1-	53.55
Bone marrow cytology	Marrow in EDTA pot & smears	1	34.40
CSF cytology Fluid analysis recommended. If possible, also submit an air dried smear.	Fluid in plain tube	1	34.40
Joint fluid cytology only Fluid analysis recommended. If possible, also submit an air dried smear.	Fluid in plain tube	1	34.40
Nasal, tracheal, bronchial wash Cytology Bacteriology	Fluid in plain tube	1	34.40 39.50
Pleural/peritoneal effusions cytology Fluid analysis recommended. If possible, also submit an air dried smear.	Fluid in plain tube	1	34.40
Tissue cytology One tissue - multiple aspirates from the same organ are one site. 2+ lesions - aspirates from distinct and different lesions/organs	Fine needle aspirate	1	34.40 43.70
Urine/prostatic wash Cytology only Cytology & urinalysis	Fluid/urine in plain tube	1	34.40 46.80
Fluid analysis package 1 - pleural, peritoneal, CSF, synovial fluids Cytology, cell count, TP, SG, triglycerides, cholesterol as appropriate.	Fluid in plain & EDTA tubes	1	41.60
Fluid analysis package 2 - pleural, peritoneal, CSF, synovial fluids Fluid analysis 1 + bacteriology	Fluid in plain & EDTA tubes	3-7	66.55

Post Mortem (necropsy) service

See sample collection guidelines page 49

Post Mortem examination Prices include gross examination and report only. Additional tests including disposal are charged as per the list price			
Test	*Samples*	Turnaround	*Price £*
Cat – foetus/abortion - single	Carcase	Same day	78
Cat – kitten up to 8 weeks old	Carcase	Same day	78
Cat - >8 weeks old	Carcase	Same day	275.60
Dog – foetus/abortion – single	Carcase	Same day	78
Dog – puppy up to 8 weeks old	Carcase	Same day	78
Dog - >8 weeks old	Carcase	Same day	275.60
Exotic species Exotic pets <10kg Exotic pets >10kg	Carcase	Same day	 109.20 218.40
Horse – abortion PM's only available from Aberdeen, Dumfries, St Boswells and Thurso centres	Carcase	Same day	218.40
Horse – Foal PM's only available from Aberdeen, Dumfries, St Boswells and Thurso centres	Carcase	Same day	296.40
Horse/pony PM's only available from Aberdeen, Dumfries, St Boswells and Thurso centres	Carcase	Same day	384.80-603.20
Pigeons – single carcase PM's only available from Aberdeen, Dumfries, St Boswells and Thurso centres	Carcase	Same day	1- 197.6 2- 161.2
Small mammals/cage birds (mice, rabbits, pet birds, etc) Single carcase	Carcase	Same day	109.20
Disposal – costs vary according to the size of the animal. All post-mortems attract a supplementary disposal charge unless the owner/practice makes separate arrangements	Carcase	Same day	20-300

Please phone the centre to which the post mortem is being sent before submission.
Animals weighing >35kg can generally only be submitted to our Aberdeen, Dumfries and St Boswells centres.
If submitting a carcase weighing >35kg to the Edinburgh centre it is essential that the lab is phoned first.

Companion Animal Index

A
ACTH (endogenous) 44
ACTH stimulation test 44
Addisons disease monitoring 38, 44
Albumin 37
Alkaline phosphatase (ALP) 37
Alanine transaminase (ALT) 37
Amylase 37
Angiostrongylus vasorum – serol 29
Angiostrongylus vasorum - faeces 30
Anoplocephala 30, 34
Antinuclear antibody 36
Aspartate transaminase (AST) 37
Aspergillus – culture 29
Aspergillus - serology 33

B
Babesia 34
Bacteriology -blood culture 29
Bacteriology - CSF 29
Bacteriology - ear 29
Bacteriology - eye 30
Bacteriology - faecal 30
Bacteriology - general 29
Bacteriology - peritoneal 29
Bacteriology - pleural 29
Bacteriology - skin 32
Bacteriology - synovial 29
Bacteriology - tissue 29
Bacteriology - respiratory 29
Bacteriology - urine 35
Betahydroxybutarate 37
Bile acids 37
Bilirubin 37
Biochemistry profiles – canine
Biochemistry profiles – feline
Biochemistry profiles – equine
Biochemistry profiles - avian
Biochemistry profiles – exotic 38-43
Borna virus 34
Borrelia - canine 33
Borrelia – equine 34
Bromide 36

C
Calcium 36
Campylobacter 29
Canine distemper virus 32
Canine parvovirus 32
Chlamydia - avian 33
Chlamydophila - feline 32
Chloride 36
Cholesterol 36
Clostridium difficile 29
Coccidia 30
Coombs 35
Copper 36
Cortisol 43
Cortisol:creatinine ratio 34, 43
C-QAS 53
C-reactive protein 36
Creatine kinase 36
Creatinine 37
Cryptorchidism 44
Cryptosporidia 29
Cytology 45

D
Dexamethasone suppression test 43
Digoxin 35
Dirofilaria 32

E
Ehrlichia 32
Equine infectious anaemia 33
Encephalitozoon 33
Endocrine tests 43-44
Equine viral arteritis 33

F
Faecal analysis packages 30
Faecal occult blood 29
Feline coronavirus 32
Feline herpesvirus 32
Feline immunodeficiency virus 32
Feline leukaemia virus 32
Fibrinogen 35
Fluid analysis packages 45
Fluke 29
Folate 36
Fractional electrolyte excretion (urine) 34
Fructosamine 36

G
Glutamate dehydrogenase (GDH) 36
Gamma glutamyl transferase (GGT) 36
Giarda 29
Globulin 36
Glucose 36
Glutathione peroxidase (GSHPX) 36

H
Haematology 35
Haemoplasma 32
Histopathology 45

I
Insulin 43
Iron 36

L
Lactate dehydrogenase (LDH) 36
Lawsonia intracellularis 33
Lead 36
Lead:creatinine ratio (urine) 34
Leishmania 32
Leptospira 32
Lipase 36
Louping ill virus 33
Lungworm 28- 29

M
Magnesium 37
Manganese 37
Meticillin resistant Staphylococci 28

N
Neospora 32

O
Oestradiol 44
Oestrogen – urinary 44
Oestrone sulphate 44
Ovarian remnant syndrome 44

P
Pancreatic lipase (PLI) 37
Parasitology - faecal 29, 30
Parasitology - skin 31
Partial thromboplastin time 35
Phenobarbitone 35
Phosphate 37
Platelets 35
PMSG 44
Post mortem examination 46
Potassium 37
Progesterone 44
Protein:creatine ratio 36
Protein electrophoresis 36
Prothrombin time 35

R
Rabbit haemorrhagic disease 33
Ringworm (dermatophyte) 32
Rotavirus 30, 34

S
Salmonella 30, 31
Selenium 37
Serum amyloid A 37
Shigella 30
SIAP 37
Sodium 37
Streptococcus equi 29,34

T
Testosterone 45
Thyroxine (T4) 44
TLI 37
Total iron binding capacity 37
Total protein 37
Toxoplasma 33
Triglycerides 37
Tritrichomonas foetus 30, 33
TSH 39

U
Urea 37
Uric acid 37
Urinalysis 35
Urine cytology 35, 45
Urine specific gravity 35
Urolith analysis 35

V
Vitamin A 37
Vitamin B12 37
Vitamin E 37

Y
Yersinia 30

Z
Zinc 37

SRUC

	Page No
Companion Animal Sample Collection Guidelines	**49-52**
Microbiology sample collection guidelines	50
Urine collection guidelines	51
Blood sampling guidelines	51-52
Histopathology/Cytology sample collection guidelines	53
Post mortem (necropsy) service	53

Microbiology sample collection guidelines

- Ensure sample is from the lesion; avoid contamination from surrounding tissue. This is particularly important for urine where a cystocentesis sample is recommended for bacteriology.
- Please use sterile plain tubes, containers or swabs for submission of all microbiology samples - boric acid containers are recommended for urine culture. Many additives in blood tubes are bacteriostatic and thus their use reduces isolation rates. If tissue samples are to be submitted please wrap in moist material to prevent drying out (do not immerse in fluid).
- When swabbing a lesion for bacteriology please use swabs that contain a transport medium as this preserves organism viability better than dry swabs.
- Faecal samples should be stored refrigerated until the sample is submitted.
- When submitting fluids for culture ensure that the plain container is completely filled to exclude air, as the presence of oxygen will potentially lead to loss of strict anaerobes from the sample.
- Generally samples that are >48 hours old are unsuitable for bacteriology due to reduced organism viability.

Origin of sample	Sample container	Sample preparation	Tests carried out
Abscess, wound	Sterile pot	Aseptically prepare the collection site	Aerobic, anaerobic & fungal culture
Blood	Blood culture medie	Prior to obtaining the blood sample aseptically prepare the venipuncture site. Collect 2-10ml of blood depending upon animal size and inject into the liquid media.	Aerobic & anaerobic culture
Bone marrow	Sterile pot	Aseptically prepare the collection site	Aerobic & anaerobic culture
CSF	Sterile pot Liquid media	Prior to obtaining the sample aseptically prepare the site. Isolation of organisms is improved if the sample is added to a liquid culture media.	Aerobic & anaerobic culture
Ear	Swab	Swab different regions of the ear, including deeper areas if possible	Aerobic & fungal culture
Eyes	Swab	Swab discharge material before applying any topical medication including local anaestehtic	Aerobic culture
Faeces	Sterile pot Swab	Avoid contamination with soil or urine	Salmonella, Campylobacter, Yersinia, Clostridium spp
Nasal cavity, sinus	Sterile pot Swab	Aspirate from sinus or swab/wash the nasal cavity.	Aerobic, anaerobic & fungal culture
Skin, nail, hair	Swab Sterile pot	Swab/scrape lesion. Do not include the blade in the sample pot. Place hairs taken from the periphery of the lesion for fungal culture in a small envelope.	Aerobic &fungal culture
Synovial fluid	Sterile pot Liquid media	Prior to obtaining the sample aseptically prepare the site Isolation of organisms is improved if the sample is added to a liquid culture media	Aerobic, &anaerobic culture
Tissue	Sterile pot	Place tissue in a sterile pot with small amount of sterile saline to prevent drying.	Aerobic, anaerobic & fungal culture
Trachea, bronchi	Sterile pot	Swab/wash the trachea/bronchi, swab the endotracheal tube	Aerobic & fungal culture
Urine	Sterile pot Boric acid.	Cystocentesis is recommended. For free catch samples use of Boric acid will restrict bacterial overgrowth. Refrigerate.	Aerobic culture

Urine collection guidelines

Test	Sample	Container	Sample preparation	Storage	Comment
Urine culture	Urine	Sterile pot Boric acid container	Obtain urine by cystocentesis to ensure sterility.	Seal and refrigerate. Prevent exposure to sunlight.	Boric acid is preferred where samples are not obtained by cystocentesis. Boric acid samples cannot be used for any chemistry tests including UP:C, or cytology. For these please submit urine in a plain tube.
Urinalysis	Urine	Plain pot	Obtain sample by cystocentesis, catheter or free catch into a clean container	Seal and refrigerate. Prevent exposure to sunlight	Do not collect urine from the floor/litter trays.
Urine cytology	Urine	Plain pot	Obtain sample by cystocentesis, catheter or free catch into a clean container	Refrigerate	
Urolith analysis	Urolith	Plain pot	None – do not add any liquid including formalin	Room temperature	

Blood sampling guidelines

Accurate and useful results are determined by the correct choice of tests and quality of the sample provided. If you are unsure what tests may be appropriate for your case please contact us for advice in advance. We store all surplus serum for 3 months enabling you to request further testing at a later date if your initial test choice is not diagnostic. Whole blood degrades over a few days and thus cannot be stored for longer than 7 days.
The tests shown in this document identify the sample types, minimum requirements and guidelines on appropriate sampling.

- Avoid lipaemia by taking samples after fasting.
- Reduce the risk of haemolysis. Haemolysis can be reduced by ensuring as wide a needle as possible is used, that a good free flow of blood is obtained and minimise the time blood is in the syringe. Do not forcibly eject blood through a needle; remove the needle prior to transferring the sample in a blood tube
- When filling tubes, fill the plain tube first to avoid any risk of carry over of anticoagulants. In particular small amounts of EDTA can interfere with several biochemistry tests
- With serum gel tubes please centrifuge sample if possible to separate red cells from the serum.
- Ensure plain tubes are clotted and clot retraction has occurred before centrifuging. Note that the sample requirements indicate the volume of serum/plasma that is required, not the volume of whole blood.
- Ensure that the correct blood tubes are used for the tests required.

- Fill all tubes to the correct level to avoid any issues with high concentrations of anticoagulants. This is particularly important with EDTA as cellular morphology is affected by high concentrations of EDTA.
- We recommend submitting an air dried blood smear which we can then use for the differential count when cellular morphology in the EDTA sample is not preserved.
- In cases where blood clotting occurs rapidly in the syringe before the sample can be mixed with EDTA (hypercoagulable states), coating the inside of the needle and syringe barrel with liquid citrate may be helpful. Aspirate a small amount of citrate into the syring ensuring all internal surfaces are coated and then eject surplus citrate prior to obtaining the sample.

Container types

Blood tubes show the name of the tube on its label – please check before adding blood and do not rely on the lid colour as this varies. The letters shown for each tube type are used in the assay lists below

- Serum gel/plain tubes (S) (red or white lids): Serum tubes contain no anticoagulant and thus blood clots in these tubes. The serum gel tubes should be centrifuged prior to submission to prevent haemolysis affecting the serum. The resulting serum is used for biochemistry and endocrinology tests.
- Lithium heparin tube (H) (green or orange lids): Contains an anticoagulant that prevents clotting. Plasma can be used for biochemistry and endocrinology. The whole blood can be used for haematology, and for exotic species it is pSerred to blood taken in to EDTA. It is also used for some molecular tests. Ensure the tube is filled to the appropriate level.
- Potassium EDTA tube (E) (red or pink lids): Contains a chelating agent which acts as anticoagulant and preserves cellular morphology. It is used for haematology and for fluid aspirates (e.g. pleural/peritoneal effusion, synovial fluid etc). It is important that the tube is filled to the correct level to preserve cellular morphology.
- Separated EDTA plasma (ES): This is required for endogenous ACTH estimation. Centrifuge the EDTA sample and place the plasma into a plain tube (not serum gel tube).
- Fluoride-oxalate tube (F) (yellow or grey lids): Oxalate is an anticoagulant whilst fluoride prevents glucose metabolism by cells. This tube is required for glucose estimation.
- Citrate tube (C) (lilac or green lids): Citrate is in anticoagulant and tubes contining this are used for clotting factor and fibrinogen assay, and may be used for haematology.

Test	Sample	Container	Sample preparation	Comment
Chemistry (most), Immunology, Endocrinology	Serum	Serum gel or plain tube (S)	Submit whole blood or separated serum. For a plain tube (no gel) transfer the serum to a new plain tube.	For therapeutic drug monitoring non-gel tubes are recommended
Progesterone	Plasma	Heparin (H)	Submit whole blood, or separated plasma	
Selenium, lead, manganese, GSHPx,	Whole blood	Heparin (H)	Do not centrifuge. Submit whole blood	
Vitamin A Vitamin E	Serum, plasma	Plain or Heparin (S/H)	Keep samples in the dark as sunlight/UV light degrades vitamins A and E.	Wrap in foil to exclude light.
ACTH (endogenous)	Plasma	EDTA (E)	Centrifuge sample at the earliest opportunity. Place the plasma into a plain tube.	Post immediately to arrive with us the next day
Haematology	Whole blood	EDTA (E)	Fill tube to the mark mix well by inversion	

Coagulation tests (PT, APTT, fibrinogen)	Plasma	Citrate (C)	Minimum 1ml of citrated plasma (c2ml of whole blood) is required for PT and APTT test. Mix adequately and ensure no clots are present. Submit whole blood or centrifuge and submit the plasma in a separate plain tube (plasma can be frozen pending submission)	Post immediately to arrive with us the next day. If the plasma has been frozen, submit with an ice-pack if possible.

Histopathology sample collection guidelines

- Provision of a full history, patient details and description of the lesion enables more accurate interpretations.
- For adequate fixation samples fix in 10% neutral buffered saline (10:1 ratio of formalin to tissue). For large biopsies it is appropriate to fix the tissue in a large pot in the practice for a few days. Completely fixed tissue can be submitted in a sealed bag or small pot with formalin soaked gauze to keep it moist. To allow formalin to penetrate large biopsies make 0.5-1cm wide incisions through the lesion; do not extend to the deep margin or through the full thickness of the tissue. For very large tissues remove 1cm cubed representative pieces, fix separately.
- Samples that are very small (<2mm) and friable, haemorrhagic, fatty or mucoid may not survive processing in which case an interpretation will not be possible.
- Multiple biopsies from different sites should be placed in separate pots and clearly labeled.
- Open hollow tissues e.g. intestine to allow formalin access to the mucosa.
- Small bone marrow, tru-cut liver or kidney should be submitted in mesh bags (available on request)
- Samples requiring extended fixation or decalcification have a longer turn-around time.

Cytology collection guidelines

Cytology sample may be obtained by aspiration, scraping or imprints. Slides may be made by smearing the aspirate or making a squash preparation. When making smears please ensure a thin film is created. Islands of material on the slide will be too thick for examination. Provision of a full history, patient details and description of the lesion enables more accurate interpretations.

- Submit labelled air-dried, unstained smears. Smears may be fixed in methanol for 5 minutes, but if unavailable, do not fix.
- Keep smears away from formalin fumes and avoid submitting slides in the same bag as formalin containing pots.
- Submit fluids and washes in EDTA pot for cytology and a plain sterile pot for culture along with unstained smears. Prepare smears immediately after taking the fluid/wash.
- Do not supply fluids in gel tubes or syringes.

Post mortem (necropsy) service

Post mortem guidelines

The cost of the post mortem is for the necropsy only. All other tests will incur charges as shown in this service guide. **Disposal charges apply** unless separate arrangements are made; **carcases cannot be released to owners for burial**. For litigation cases extra charges will be incurred if discussions with legal representatives or attendance at court are required – please contact us for an estimate of costs. Smaller carcases can be posted to us. A full history is required. We must be informed in advance if a case is to be submitted for necropsy, and the body should be submitted at the earliest opportunity. Smaller carcases should be kept refrigerated, whilst larger bodies should be kept as cool as possible. Avoid freezing a body unless the time between death and submission is likely to be >72 hours, in which case freezing is preferred.

C-QAS

Capital Quality Assessment Service

External quality assessment (EQA) for point-of-care biochemistry and haematology analysers.

C-QAS provides an independent comprehensive, external quality assurance scheme for veterinary point-of-care analysers of all makes and models. Our unique EQA service assesses the performance of biochemistry and haematology analysers and provides guidance on how poor performance may be managed. We cover all analyser types including hand held kennel-side analysers such as glucometers.

Our external quality assessment service uses peer comparison with the same analyser make (where we have sufficient numbers of the analyser type registered), a method widely used across all human EQA schemes. The process is simple and satisfies the requirement of the RCVS's practice standards scheme.

Novel features specific to C-QAS include:

a. Peer-comparison of both biochemistry and haematology analysers; including manual white cell differentials.
b. Comprehensive list of biochemistry analytes including blood gases, ionised calcium, thyroxine, progesterone, and cortisol
c. Inclusion of parameters specific to equine and livestock species.

Samples (serum/ whole blood/ blood gases) are posted monthly to the subscriber, who return their results online through our VetPortal. The annual subscription runs from April to March, and the current rates (excluding VAT) are:

Routine C-QAS Products	Price/ site/ year*
Biochemistry **or** Haematology **or** Coagulation	£170
Biochemistry + Haematology	£275
Biochemistry + Coagulation	£275
Biochemistry + Haematology + Coagulation	£320
Biochemistry + Haematology + Urine	£290
Biochemistry + Haematology + Coagulation + Urine	£335

Routine Blood Gas Analysis	Price/ year
Blood gases only	**1** - £210 **2** - £385 **3** - £560
Blood gases in addition to a routine C-QAS product	**1** - £175 **2** - £350 **3** - £525

***Prices apply for up to three Biochemistry analysers, one Haematology analyser and/or one Coagulation analyser per site. Any additional analysers will be invoiced at a cost of £45/analyser/year (excl. VAT).**

Practices joining part way through the year will be invoiced for the remaining months pro rata.

More information can be found on our website or email c-qas@sruc.ac.uk for further details.

SRUC VETERINARY AND ANALYTICAL SERVICES STANDARDS OF SERVICE

We provide laboratory services in the veterinary sector. Our operations comply with the requirements of ISO 17025:2017 and are assessed annually by the United Kingdom Accreditation Service (UKAS).

Full schedules of accredited SRUC Veterinary and Analytical Services procedures are available on request or can be viewed on the web at www.ukas.com/find-an-organisation - accredited organisation search on customer number 2239 and 7624.

The diagnostic work we carry out to support Scottish Government's animal disease surveillance programme is reported by SRUC. Other work submitted is reported by SRUC Innovation Ltd. SRUC and SRUC Innovation Ltd are separate legal entities and are covered by separate accreditation to ISO 17025:2017 by UKAS on certificate numbers 2239 and 7624 respectively.

Where applicable, decision rules for tests are available on request. Decisions relating to test interpretation are provided to clients by means of standard comments in veterinary reports. This covers aspects such as positive, negative or inconclusive cut-offs for serological tests based on kit manufacturer's information, and other data such as biochemistry values and parasitology results in relation to species, age of animal and sample type. Further interpretation taking account of clinical history and other information pertaining to the case, is provided as Veterinary Opinions and Interpretations.

Our scope of accreditation includes opinions and interpretations in farm and companion animal species.

Our opinions and interpretations will be based primarily on the test results and appear under the interpretation section of test reports. Accreditation for the expression of opinions and interpretations relates to test results generated from the accredited methods on the UKAS schedule. At all times our team will seek to provide opinions and interpretation, but on the occasions where this is not possible we will use advice from an approved subcontractor. In such circumstances this will be clearly identified on the test reports.

The test method list for all accredited tests is available at Test Method List. Almost all tests we offer are accredited to ISO 17025, however in the small number of tests that are not accredited, or where the test is carried out by another laboratory on our behalf we will clearly identify that these tests are not accredited. We are responsible to customers for any subcontracted tests, with the exception of subcontractors specified by customers or regulatory bodies. We have an assessment procedure for subcontractors and a register of approved subcontractors is maintained and reviewed on an annual basis. Should subcontracting be required, the services of an accredited laboratory will be employed wherever possible. We will indicate where a subcontracted laboratory was used.

We are committed to providing the highest level of service to customers and we welcome recommendations for improvement and any comment you may have on the quality of service and service delivery.

Anne Seaton
Head of Veterinary Diagnostics and Livestock Health Schemes