



NationWide
LABORATORIES



NationWide Laboratories

Price List 2024/25

Delivering excellence in animal health

NationWide

Introduction



NationWide
LABORATORIES

Welcome to our 2024/25 price list



NationWide Laboratories has been providing veterinary diagnostic services since 1983. Throughout our history we have been committed to quality of service through proficiency testing and rigorous quality assessment and assurance, which ensured positive development over the years.

Our company has gone through a series of name changes and acquisitions, getting stronger with each exciting development.

In 2012, Cambridge Specialist Laboratory Services, which was formed in 1998 by a small group of scientists and technicians with many years of experience in veterinary endocrinology and radioimmunoassays, joined the business.

The modern chapter of NationWide Laboratories history started in 2013, when we became part of National Veterinary Services Ltd (NVSL) along with National Veterinary Services - the largest UK veterinary wholesaler.

In 2015, the acquisition of Abbey Veterinary Services, founded in 1985, gave the business even greater depth in histology and cytology experience.

Today NationWide Laboratories forms an integral part of NVS Group, which is the UK's leader for veterinary wholesale, consumables, software, and laboratory services.

Yours sincerely

David Charvill

Director of Laboratory Services

Delivering a Greener Pawprint


At NationWide Laboratories we are committed to reducing the impact of our operations on the environment. We participate in Terracycle recycling programme. Our non-recyclable plastics are sent to an energy recovery facility and are used for electricity generation. We donate old laboratory equipment, such as microscopes, to schools rather than disposing of them in landfill. Our Price List is printed onto Carbon Balanced Paper through World Land Trust scheme with the use of sustainable vegetable inks. We have introduced new bags for packaging your samples for courier collection. Our new bags are sustainably sourced, carbon neutral, fully recyclable, made from sugar cane and come in small or large size depending on the number of submissions you need to enclose on the day.



We have many greener initiatives on the go, so please scan the QR code if you want to know more!



NationWide

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Clinical Pathologists

Clinical Pathologist - Dr Stacey A Newton

BVSc FRCPath CertEM (Int Med) PhD MRCVS

Stacey graduated from Bristol in 1993. After building up experience in general practice, she became a resident in equine medicine at Leahurst, Liverpool University. She was awarded a certificate in equine medicine (internal) in 1997. Stacey then went on to complete her PhD in equine neuroanatomy and neurology in 2001. She was awarded her FRCPath in 2010.

Clinical Pathologist - Alina Bodnariu

DVM MSc PhD FRCPath MRCVS

Alina graduated from the Faculty of Veterinary Medicine Bucharest in 2004. Following her postgraduate studies, she worked for two years in small animal general practice in the UK. In 2010 she undertook a residency in Veterinary Clinical Pathology within a commercial laboratory, with regular training at the Royal Veterinary College. She was awarded her FRCPath in 2016. She enjoys all aspects of clinical pathology, in particular cytology, haematology and endocrinology.

Trainee Clinical Pathologist - Jana Leontescu

BSc MRCVS

Jana is a qualified veterinary surgeon. She studied veterinary medicine in the University of Agricultural Sciences and Veterinary Medicine of Cluj-Napoca, Romania. After working for a few years in a practice both in Romania and in the UK, she realised that her interest lies in veterinary science. She took a job at NationWide Laboratories' microbiology department with a specialist interest in parasitology. As her career progressed, Jana became a Trainee Clinical Pathologist working towards her ambition to become a Boarded Clinical Pathologist.

Trainee Clinical Pathologist - Jasmin Chan

BVetMed, BSc (Hon) CompPath, MRCVS

Jasmine is a qualified veterinarian with a special interest in clinical pathology. Since starting her career as a veterinarian, Jasmine has particularly enjoyed demonstrating her skills in cytology using in-house facilities. Apart from the routine consultations and performing surgeries, the ability to share her pathology knowledge with others in practice has brought her greatest satisfactions at work. After spending four years in practice, Jasmine joined NationWide Laboratories as a Trainee Clinical Pathologist to pursue her passion in pathology and apply her previous research and clinical experience in the laboratory setting.

Trainee Clinical Pathologist - Paulina Maria Wozniak

DVM MRCVS

Paulina graduated from University of Life Sciences in Lublin, Poland. At the beginning of her career as a veterinary surgeon, she was gaining experience in a multiple Polish and English veterinary facilities, what resulted in developing passion for clinical pathology, especially cytology. For the past few years, she was also working in one of the biggest Polish veterinary laboratories, where she was one of the head cytologists, holding responsibility for reporting cytology cases. In the meantime, she participated in multiple, international cytology courses. She started her career as a Trainee Clinical Pathologist to perfect her cytology skills and clinical pathology knowledge, what always was her main professional goal. A proud owner of exotic shorthair cat Albus.

Anatomic Pathologists

Anatomic Pathologist - Kerry Freell

BVMS GPCert (SAS) FRCPath MRCVS

Kerry graduated from the University of Glasgow Veterinary School in 1999. After 5 years in mixed practice she undertook a residency in anatomical pathology at the Royal Dick School of Veterinary Studies where she gained experience in gross post mortem, histological and cytological evaluation of tissue from all domestic species, wildlife and exotics. She was awarded her DipRCPPath in 2008 and in 2009, after a year working in small animal emergency and critical care, she achieved her General Practitioner Certificate in small animal surgery. In 2010, after a short spell as a locum pathologist at Glasgow University Veterinary School, she obtained her FRCPath when she joined the laboratory full time. She has been a senior examiner in Anatomical Pathology for the Royal College of Pathologists since 2015.

Anatomic Pathologist - Trevor Whitbread

BSc BVSc DipECVP MRCVS

Trevor was in a mixed practice in Leicester before returning to Liverpool as a lecturer in the Department of Veterinary Pathology. He gained experience in general diagnostic pathology and clinical chemistry before specialising in histopathology and cytology. He has a special interest in dermatopathology and is a Diplomate of the European College of Veterinary Pathology.

Anatomic Pathologist - Sandra Dawson

BSc BVMS FRCPath MRCVS

Sandra is a graduate of Aberdeen and Glasgow Universities, gaining a BSc in agriculture with honours in animal science in 1991 and her veterinary degree in 1995. She moved from working in mixed practice in 1997 to take up a residency in veterinary pathology at Edinburgh University, latterly lecturing in reproductive pathology. After 5 years in industry, where she gained her FRCPath, Sandra joined NationWide Laboratories in May 2006. In 2011 Sandra was appointed to the Royal College of Pathologists board of examiners in the speciality of small domestic animals. She enjoys teaching and mentoring, and is an active STEM ambassador. Sandra works with surgical biopsies and fine needle aspirates. She can advise on all aspects of histopathology in a wide range of species.

Anatomic Pathologist - Malcolm Silkstone

BVSc DipIACVP MRCVS

After qualifying in South Africa, Malcolm had a period of post-graduate pathology training which was followed by three years in general practice in the UK. Malcolm has obtained extensive diagnostic pathology experience over the past twelve years culminating in gaining American Board Diplomate status. He has specialist interests in oncology and dermatopathology and infectious diseases.

Anatomic Pathologist - Karina Fresneda

DVM, Dipl. ACVP

Karina graduated from the National University of the Centre of Buenos Aires Province in Argentina in 2000, and after two years of training she became Specialist in Anatomohistopathological Veterinary Diagnosis. Karina became the Diplomate of the American College of Veterinary Pathology in 2023. She has been teaching in Infectious Diseases at the same University for 15 years. At the same time, she was gaining experience, on her clinic and laboratory, as a clinician and working on clinical pathology, cytology and histopathology. She took a 3 years Residency in Anatomic Veterinary Pathology in University of California, Davis, where she received an intensive training on this field. She also enjoys teaching different courses on clinical pathology, cytology and histopathology.

Anatomic Pathologist - Marvin Firth

BVSc (Hons.), DipRCPPath, DipFMS, AFHEA, MRSB, MRCVS

Marvin graduated from Liverpool in 2009 with honours and distinction. He has gained experience in first and second opinion small, large animal and equine practice throughout the south of England and undertaken research in pregnancy loss in mares. Marvin has undertaken a variety of externships in anatomic pathology including in the US and Europe and has undertaken residency training at Cambridge and Surrey universities. In 2019, Marvin obtained the Diploma in Forensic Medical Sciences and is studying towards the ACVP and Royal College of Pathologists' board certifications, achieving DipRCPPath and ACVP Phase 1 in 2022. He is the RC Pathologists Trainee representative in Veterinary Anatomic Pathology.

Associate Pathologists

Dr Peter Graham BVMS PhD CertVR DipECVCP MRCVS

Peter graduated from Glasgow in 1989; he is a clinical pathologist and endocrinologist with an international reputation. Following his post-graduate studies he was appointed as a lecturer in Veterinary Clinical Pathology at Glasgow. Before joining the laboratory, he was Assistant Professor and Section Chief of the endocrinology section of the Animal Health Diagnostic Laboratory at Michigan State University, recognised as the world's largest endocrinology laboratory. His particular professional interests include internal medicine and clinical pathology. In addition Peter has an impressive bibliography and is a popular speaker at veterinary meetings throughout the world.

Madonna Livingstone BVMS MRCVS

Madonna qualified from Glasgow Vet School in 2002. She currently has an exotics case load of 70% including both first opinion and referral. Madonna speaks widely in the U.K. on exotic animal medicine and surgery, is an exotics lecturer and rabbit surgery instructor for Glasgow University Veterinary School, has a diploma in parrot behaviour, has been published several times on exotic species, is the chair of an ethical committee for two zoological collections and was the past chair of Scottish Region of BSAVA. She has extensive knowledge of exotic species and is always happy to help with cases.

Cheryl Scudamore BVSc PhD FRCPath FRCVS

Cheryl is an RCVS Specialist in Veterinary Pathology with a wide range of experience in diagnostic, experimental and toxicological pathology. She has worked as a pathologist for NWL, MRC Harwell, RVC, R(D)SVS, GSK and Covance and currently works as an independent consultant. She has special interests in small mammal pets and laboratory animals. She is an examiner for the FRCPath and an elected member of RCVS Council.

Susan Kirwan BVMS FRCPath MRCVS

Sue graduated from the University of Glasgow Veterinary School in 1988 and spent the following 12 years in small animal and exotic practice. She joined us in 2000 and brought a wealth of knowledge and clinical experience to the laboratory. Her practitioner-orientated approach to interpretations has proved popular with clients. Sue is especially interested in dermatology, haematology, cytology, and feline medicine. She was awarded her FRCPath in 2009.

Helen R Campbell BVMS&SS/SG FRCPath MRCVS

Helen graduated from the R(D)SVS in 2002 and worked in mixed and small animal practice in Derbyshire and Staffordshire for 5 years. She joined us in 2007 to train as a clinical pathologist and was awarded her FRCPath in 2011. She enjoys all aspects of clinical pathology but her particular interests include endocrinology and haematology.



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Biochemistry

Canine and Feline Profiles

Code	Name	Includes	Comment	Wkg Days	Sample	Exc. VAT	F
Profiles without Veterinary Interpretation							
NI1	Investigation Screen 1	AP, ALT, Bilirubin, Total Protein, Albumin, Globulin, A:G ratio, Urea, Creatinine, Calcium, Phosphorus, GGT, AST, CK, Glucose, Cholesterol, Sodium, Potassium, Na:K ratio, Chloride, Bile Acids + Haemogram		SD	SS/SG + E + Blood smear		
NI2	Routine Profile	AP, ALT, Bilirubin, Total Protein, Albumin, Globulin, A:G ratio, Urea, Creatinine, Calcium, Phosphorus, CK, Glucose, Cholesterol, Sodium, Potassium, Na:K ratio, Chloride + Haemogram		SD	SS/SG + E + Blood smear		
NI3	Basic Profile	AP, ALT, Total Protein, Albumin, Globulin, A:G ratio, Urea, Creatinine, Glucose + Haemogram		SD	SS/SG + E + Blood smear		
NI4	Investigation Screen Full	AP, ALT, GGT, Bilirubin, Total Protein, Albumin, Globulin, A:G ratio, AST, Urea, Creatinine, SDMA, GLDH, Calcium, Phosphorus, CK, Glucose, Cholesterol, Amylase, Lipase (DGGR), Sodium, Potassium, Na:K ratio, Chloride, Bile Acids + Haemogram	NEW; SDMA added	SD	SS/SG + E + Blood smear		
PAC+	Pre-Anaesthetic Check Plus Coagulation	ALT, Total Protein, Urea, Creatinine, Bile Acids (fasted), RBC, Hb, Hct, MCV, MCHC, WBC, Platelets, APTT, OSPT		SD	SS/SG + E + Cit + Blood smear		
PAC	Pre-Anaesthetic Check	ALT, Total Protein, Urea, Creatinine, Bile Acids (fasted), RBC, Hb, Hct, MCV, MCHC, WBC, Platelets		SD	SS/SG + E + Blood smear		
NSAID	NSAID Monitoring	AP, ALT, Total Protein, Urea, Creatinine, AST		SD	SS/SG		F
ELDP	Elderly Patient	AP, ALT, Bilirubin, Total Protein, Albumin, Globulin, A:G ratio, AST, Urea, Creatinine, SDMA, Calcium, Phosphorus, GGT, CK, Cholesterol, Triglyceride, Lipase (DGGR), Glucose, Bile Acids, Sodium, Potassium, Na:K ratio, Chloride, T4 + Haemogram	NEW; SDMA added	SD	SS/SG + E + Blood smear		
SHCC	Canine Senior Health Check	AP, ALT, Bilirubin GGT, Total Protein, Albumin, Globulin, A:G Ratio, Glucose, Cholesterol, Urea, Creatinine, Calcium, Phosphorus, Sodium, Potassium, Na:K ratio, Chloride + Haemogram		SD	SS/SG + E + Blood smear		
SHCC+	Canine Senior Health Check Plus T4	AP, ALT, Bilirubin GGT, Total Protein, Albumin, Globulin, A:G Ratio, Calcium, Urea, Sodium, Potassium, Na:K ratio, Chloride, Phosphorus, Creatinine, Glucose, Cholesterol, Haemogram + T4		SD	SS/SG + E + Blood smear		
SHCF	Feline Senior Health Check Plus T4	AP, ALT, Bilirubin GGT, Total Protein, Albumin, Globulin, A:G Ratio, Glucose, Cholesterol, Urea, Creatinine, Calcium, Phosphorus, Sodium, Potassium, Na:K ratio, Chloride, Haemogram + T4		SD	SS/SG + E + Blood smear		
SHCFN	Feline Senior Health Check	AP, ALT, Bilirubin GGT, Total Protein, Albumin, Globulin A:G Ratio, Glucose, Cholesterol, Urea, Creatinine, Calcium, Phosphorus, Sodium, Potassium, Na:K ratio, Chloride + Haemogram		SD	SS/SG + E + Blood smear		
SPN	Standard Profile	AP, ALT, Bilirubin, Total Protein, Albumin, Globulin, A:G ratio, Calcium, Phosphorus, Urea, Creatinine, Glucose		SD	SS/SG		
INTP	Veterinary Clinical Pathologist Interpretation			SD			F
General Profiles							
DS+	Diagnostic Screen Plus	AP, ALT, Bilirubin, Total Protein, Albumin, Globulin, A:G ratio, Calcium, Phosphorus, Urea, Creatinine, GLDH, GGT, AST, CK, Glucose, Amylase, Lipase (DGGR), Cholesterol, Bile Acids (fasted), Sodium, Potassium, Na:K ratio, Chloride, Haemogram + Urinalysis		SD	SS/SG + E + Urine + Blood smear		
DS	Diagnostic Screen	AP, ALT, Bilirubin, Total Protein, Albumin, Globulin, A:G ratio, Calcium, Phosphorus, Urea, Creatinine, GLDH, GGT, AST, CK, Glucose, Amylase, Lipase (DGGR), Cholesterol, Bile Acids (fasted), Sodium, Potassium, Na:K ratio, Chloride + Haemogram		SD	SS/SG + E + Blood smear		

Glucose Testing

A separated serum/spun gel is the preferred sample type for Glucose measurement. Serum/spun gel separation should be performed within 30 minutes of taking the sample. Fluoride Oxalate tubes may also be used for Glucose measurement

See sample guide on pages 70 & 71

F Denotes a fixed price test which is non-discountable

BFT or B12F

If adding BFT or B12F to a profile extra serum is required

Canine and Feline Profiles

Code	Name	Includes	Comment	Wkg Days	Sample	Exc. VAT	F
<i>General Profiles (continued)</i>							
EPH	Extra Profile and Haemogram	AP, ALT, Bilirubin, Total Protein, Albumin, Globulin, A:G ratio, Calcium, Phosphorus, Urea, Creatinine, GLDH, GGT, AST, CK, Glucose, Amylase, Lipase (DGGR), Cholesterol + Haemogram		SD	SS/SG + E + Blood smear		
EP	Extra Profile	AP, ALT, Bilirubin, Total Protein, Albumin, Globulin, A:G ratio, Calcium, Phosphorus, Urea, Creatinine, GLDH, GGT, AST, CK, Glucose, Amylase, Lipase (DGGR), Cholesterol		SD	SS/SG		
SPH	Standard Profile and Haemogram	AP, ALT, Bilirubin, Total Protein, Albumin, Globulin, A:G ratio, Calcium, Phosphorus, Urea, Creatinine, Glucose + Haemogram		SD	SS/SG + E + Blood smear		
SP	Standard Profile	AP, ALT, Bilirubin, Total Protein, Albumin, Globulin, A:G ratio, Calcium, Phosphorus, Urea, Creatinine, Glucose		SD	SS/SG		
EXDS	Extended Diagnostic Screen	AP, ALT, Bilirubin, Total Protein, Albumin, Globulin, A:G ratio, Calcium, Phosphorus, Urea, Creatinine, SDMA, GLDH, GGT, AST, CK, Glucose, Amylase, Lipase (DGGR), Cholesterol, Bile Acids (fasted), Sodium, Potassium, Na:K ratio, Chloride, Haemogram, Urinalysis, UPCR		SD	SS/SG + E + Urine + Blood smear		
<i>Disease Investigation</i>							
FIS	Feline Investigation Screen	AP, ALT, Bilirubin, Total Protein, Albumin, Globulin, A:G ratio, Calcium, Phosphorus, Urea, Creatinine, Glucose, Sodium, Potassium, Na:K ratio, Chloride, Bile Acids (fasted), FeLV, FIV, FIP + Haemogram	<i>FELV/FIV ELISA</i>	1-5	SS/SG + E + Smear from fresh blood not E		
PDP+	Polydipsia Profile Plus	AP, ALT, Bilirubin, Total Protein, Albumin, Globulin, A:G ratio, Urea, Creatinine, Calcium, Phosphorus, Cholesterol, Sodium, Potassium, Na:K ratio, Chloride, Glucose, Haemogram + Urinalysis		SD	SS/SG + E + Blood smear + Urine		
PDP	Polydipsia Profile	AP, ALT, Bilirubin, Total Protein, Albumin, Globulin, A:G ratio, Urea, Creatinine, Calcium, Phosphorus, Cholesterol, Sodium, Potassium, Na:K ratio, Chloride, Glucose + Haemogram		SD	SS/SG + E + Blood smear		
CSWP	Collapse Seizure and Weakness Profile	AP, ALT, Total Protein, Albumin, Globulin, A:G ratio, AST, Urea, Creatinine, Calcium, Phosphorus, CK, Cholesterol, Bile Acids (fasted), Sodium, Potassium, Na:K ratio, Chloride, Glucose + Haemogram		SD	SS/SG + E + Blood smear		
GPD	Canine Geriatric Profile	AP, ALT, Total Protein, Albumin, Globulin, A:G ratio, Urea, Creatinine, Calcium, Phosphorus, CK, Cholesterol, Glucose, Haemogram + Urinalysis		SD	SS/SG + E + Urine + Blood smear		
GPC	Feline Geriatric Profile	AP, ALT, Bilirubin, Total Protein, Albumin, Globulin, A:G ratio, Urea, Creatinine, SDMA, Calcium, Phosphorus, Glucose, Sodium, Potassium, Chloride, Na:K ratio, T4 + Haemogram		SD	SS/SG + E + Blood smear		
GPC+	Feline Geriatric Profile Plus	AP, ALT, Bilirubin, Total Protein, Albumin, Globulin, A:G ratio, Urea, Creatinine, SDMA, Calcium, Phosphorus, Glucose, Sodium, Potassium, Chloride, Na:K ratio, T4, Haemogram + Urinalysis		SD	SS/SG + E + Blood smear + Plain urine		
LP	Liver Profile	AP, ALT, GLDH, GGT, AST, Bilirubin, Total Protein, Albumin, Globulin, A:G ratio, Lipase (DGGR), Cholesterol, Urea, Bile Acids (fasted and 2hr post feeding)	<i>Direct Bilirubin added when indicated</i>	SD	SS/SG x 2 Label accordingly		

See sample guide on pages 70 & 71

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Glucose Testing

A separated serum/spun gel is the preferred sample type for Glucose measurement. Serum/spun gel separation should be performed within 30 minutes of taking the sample. Fluoride Oxalate tubes may also be used for Glucose measurement.

BFT or B12F

If adding BFT or B12F to a profile extra serum is required

Biochemistry

Canine and Feline Profiles

Code	Name	Includes	Comment	Wkg Days	Sample	Exc. VAT	F
<i>Disease Investigation (continued)</i>							
KP+	Kidney Profile	Urea, Creatinine, Total Protein, Albumin, Globulin, A:G ratio, Calcium, Phosphorus, Sodium, Potassium, Na:K ratio, Chloride + Urinalysis		SD	SS/SG + Urine		
KP	Kidney Monitoring	Total Protein, Albumin, Globulin, A:G ratio, Urea, Creatinine, Calcium, Phosphorus, Sodium, Potassium, Na:K ratio, Chloride, USG		SD	SS/SG + Urine		
KPS	Kidney Profile Plus SDMA	Total Protein, Albumin, Globulin, A:G ratio, Urea, Creatinine, Calcium, Phosphorus, Sodium, Potassium, Na:K ratio, Chloride, USG, SDMA		SD	SS/SG + Urine		
KPS+	Kidney Profile With Urine Plus SDMA	Total Protein, Albumin, Globulin, A:G ratio, Urea, Creatinine, Calcium, Phosphorus, Sodium, Potassium, Na:K ratio, Chloride, USG, Urinalysis, SDMA		SD	SS/SG + Urine		
FKP	Feline Kidney Monitoring	Total Protein, Albumin, Globulin, A:G ratio, Urea, Creatinine, Calcium, Phosphorus, Magnesium, Sodium, Potassium, Na:K ratio, Chloride, USG		SD	SS/SG + Urine		
FKPS	Feline Kidney Profile Plus SDMA	Total Protein, Albumin, Globulin, A:G ratio, Urea, Creatinine, Calcium, Phosphorus, Magnesium, Sodium, Potassium, Na:K ratio, Chloride, USG, SDMA		SD	SS/SG + Urine		
PI	Proteinuria and Early Kidney Profile	Total Protein, Albumin, Globulin, A:G ratio, Urea, Creatinine, Calcium, Phosphorus, Sodium, Potassium, Na:K ratio, Chloride, Urine Protein:Creatinine ratio + Urinalysis		SD	SS/SG + Urine		
GFR	Glomerular Filtration Rate		<i>Contact NWL for protocol</i>	4-6	SS/SG x 3		F
SDMA	Symmetric Dimethylarginine			SD	SS/SG or HP		
LIPP	Lipid Profile	Glucose, Cholesterol, Triglyceride		SD	SS/SG		
PP	Pancreatic Profile	Albumin, Amylase, Lipase (DGGR), Calcium	<i>CPLI May provide a more specific diagnosis</i>	SD	SS/SG		
CPP+	Canine Pancreatic Profile plus CPLI	Albumin, Amylase, Lipase (DGGR), Calcium, + CPLI Canine Pancreatic Specific Lipase Immunoreactivity.	<i>Pancreatic inflammatory disease</i>	3	SS/SG only fasted		
FPP+	Feline Pancreatic Profile plus FPLI	Albumin, Amylase, Lipase (DGGR), Calcium, + FPLI Feline Pancreatic Specific Lipase Immunoreactivity.	<i>Pancreatic inflammatory disease.</i>	3	SS/SG only fasted		
CIS	Canine Intestinal Screen	AP, ALT, Bilirubin, Total Protein, Albumin, Globulin, A:G ratio, Urea, Creatinine, Calcium, Phosphorus, GGT, AST, CK, Glucose, Amylase, Lipase (DGGR), Cholesterol, Sodium, Potassium, Na:K ratio, Chloride, Bile Acids, Haemogram, TLI, B12, Folate	<i>B12, Folate, TLI not run on Saturday</i>	SD	SS/SG + E + OXF + Blood smear Extra serum required to run BFT		
ISF	Feline Intestinal Screen	AP, ALT, Bilirubin, Total Protein, Albumin, Globulin, A:G ratio, Urea, Creatinine, Calcium, Phosphorus, GGT, AST, CK, GLDH, Glucose, Amylase, Lipase (DGGR), Cholesterol, Triglycerides, Sodium, Potassium, Na:K ratio, Chloride, Glucose, Bile Acids, Haemogram, B12, Folate	<i>B12, Folate not run on Saturday</i>	SD	SS/SG + E + OXF + Blood smear Extra serum required to run B12F		

Glucose Testing

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See sample guide on pages 70 & 71

F Denotes a fixed price test which is non-discountable

BFT or B12F

If adding BFT or B12F to a profile extra serum is required

Bile Acids pre and post feeding - Obtain post feeding sample 2 hours after a meal sufficient in volume and composition to stimulate gallbladder contraction. Oil/fat supplementation should not be necessary. **Label tubes accordingly**

Canine and Feline Profiles

Code	Name	Includes	Comment	Wkg Days	Sample	Exc. VAT	F
Disease Investigation (continued)							
CCS	Canine Cardiac Screen	ProBNP	<i>Sample ≤ 24hrs old on receipt. If delay anticipated, submit on ice. Consider adding +TRP</i>	7	0.5ml separated EDTA plasma. Centrifuge EDTA within 10 mins of sampling and place separated plasma into a plain tube labelled 'EDTA plasma'		F
FCS	Feline Cardiac Screen	ProBNP	<i>See above</i>	7	EP - handle as above		F
SCCS	Senior Canine Cardiac Screen	AP, ALT, GLDH, Total Protein, Albumin, Globulin, A:G ratio, Urea, Creatinine, Phosphorus, Sodium, Potassium, Na:K ratio, Chloride, Haemogram + ProBNP	<i>For ProBNP See above</i>	7	SS/SG + E + EP + Blood Smear EP - handle as above		F
Add to Profiles (also see Individual Tests)							
+BA	Bile Acids		<i>Fasted</i>	SD	SS/SG		
+BA2	Bile Acids		<i>Post feeding</i>	SD	SS/SG		
+BAP	Bile Acids Stimulation Test	Fasted and 2hr post feeding		SD	SS/SG x 2		
+TRP	Troponin I		<i>Canine, Feline and Equine</i>	2-4	SS/SG		F
+UPC	Urine Protein Creatinine Ratio			SD	Urine		
Cancer Screening							
NUQCS	Nu.Q® Cancer Screening Test	Nu.Q® Cancer Screening Test	<i>For collection and sampling see website https://nwlab.com/nu-q-vet-cancer-screening-test</i>	7-10	EDTA plasma		F
NUQHC	Health Check plus Nu.Q® Cancer Screening Test	AP, ALT, Bilirubin, GGT, Total Protein, Albumin, Globulin, A:G ratio, Glucose, Cholesterol, Urea, Creatinine, Calcium, Phosphorous, Sodium, Potassium, Na:K ratio, Chloride, T4 plus Nu.Q® Cancer Screening Test	<i>For collection and sampling see website https://nwlab.com/nu-q-vet-cancer-screening-test</i>	7-10	EDTA plasma		F

Glucose Testing

A separated serum/spun gel is the preferred sample type for Glucose measurement. Serum/spun gel separation should be performed within 30 minutes of taking the sample. Fluoride Oxalate tubes may also be used for Glucose measurement.

BFT or B12F

If adding BFT or B12F to a profile extra serum is required

Bile Acids pre and post feeding - Obtain post feeding sample 2 hours after a meal sufficient in volume and composition to stimulate gallbladder contraction. Oil/fat supplementation should not be necessary. **Label tubes accordingly**

See sample guide on pages 70 & 71

F Denotes a fixed price test which is non-discountable

Nu.Q® Vet Cancer Test

NationWide Laboratories offers Nu.Q® Vet Cancer Test in the UK. It is a simple, affordable, easy to use blood test which can be used as part of a wellness check for older dogs as well as younger dogs with an increased risk of developing cancer in their lifetimes, such as those with a familial history and certain breeds. By measuring and analysing nucleosomes in the DNA, the Nu.Q® Vet Cancer Test can identify patients who may have cancer. This must be confirmed by follow up procedures, for example, a biopsy or a scan. Alongside other routine blood work and imaging, this test may help find cancer at an early stage, before symptoms appear, allowing for a better chance at effective treatment.



For more information, please email cls.info@nwlab.com

Biochemistry

Canine and Feline Profiles

Code	Test Name	Interpretation	AP	ALT	Bilirubin	Total Protein	Albumin	Globulin	A:G ratio	Calcium	Phosphorus	Urea	Creatinine	GLDH	GGT	AST	CK	Glucose	Amylase	Lipase (DGGR)	Bile Acids	Cholesterol	Na, K, Cl	Na:K ratio	Haemogram	T4	SDMA	Urinalysis	UPCR	Urine SG	Additional Test	Exc. VAT	F					
			Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y				
DS+	Diagnostic Screen Plus	Y	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	F		
DS	Diagnostic Screen	Y	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
NI4	Investigation Screen Full	N	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
EPH	Extra Profile and Haemogram	Y	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
NI1	Investigation Screen 1	N	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
EP	Extra Profile	Y	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
SPH	Standard Profile and Haemogram	Y	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
SPHN	Standard Profile and Haemogram	N	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
SP	Standard Profile	Y	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
SPN	Standard Profile	N	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
FIS	Feline Investigation Screen	Y	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
PDP+	Polydipsia Profile Plus	Y	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
PDP	Polydipsia Profile	Y	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
NI2	Routine Profile	N	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
CSWP	Collapse, Seizure and Weakness Profile	Y	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
CSWN	Collapse, Seizure and Weakness Profile Non Interp	N	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
GPD	Canine Geriatric Profile	Y	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
GPDN	Canine Geriatric Profile Non Interp	N	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
SHCC	Canine Senior Health Check	N	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
SHCCN	Canine Senior Health Check	N	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
SHCC+	Canine Senior Health Check + T4	N	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
ELDP	Elderly Patient	N	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
GPC	Feline Geriatric Profile	Y	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
GPCN	Feline Geriatric Profile Non Interp	N	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
GPC+	Feline Geriatric Profile Plus	Y	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
SHCF	Feline Senior Health Check + T4	N	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
SHCFN	Feline Senior Health Check	N	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
NI3	Basic Profile	N	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
KP+	Kidney Profile	Y	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
KP	Kidney Monitoring	Y	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
KPS	Kidney Monitoring with SDMA	Y	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
KPS+	Kidney Monitoring with SDMA + UA	Y	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
LP	Liver Profile	Y	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
LIPP	Lipid Profile	Y	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
PP	Pancreatic Profile	Y	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
SCCS	Senior Canine Cardiac Screen	Y	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	F
PAC	Pre-Anaesthetic Check	N	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
PAC+	Pre-Anaesthetic Check Plus Coagulation	N	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
NSAID	NSAID Monitoring	N	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	F

Individual Tests

Analyte	Wkg Days	Sample	Comment	Exc. VAT
AP, ALT, GLDH, GGT, Bilirubin Total, Bilirubin Direct, Total Protein, Albumin, Cholesterol, Triglyceride, LDH, AST, CK, Amylase, Lipase (DGGR), Urea, Uric Acid, Creatinine, Calcium, Phosphorus, Magnesium	SD	SS/SG		Price per test
Glucose	SD	SS/SG + OxF	Price per test if ≥ 3 tests or test added to profile	

Glucose Testing

A separated serum/spun gel is the preferred sample type for Glucose measurement. Serum/spun gel separation should be performed within 30 minutes of taking the sample. Fluoride Oxalate tubes may also be used for Glucose measurement

BFT or B12F

If adding BFT or B12F to a profile extra serum is required

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E: info@VetIT.co.uk

Biochemistry

Avian Profiles

Code	Name	Includes	Comment	Wkg Days	Sample	Exc. VAT	F
AVH	Avian Haemogram	RBC, Hb, PCV, MCV, WBC, Diff, Platelet comment, Cellular morphology		SD	HB + Blood smear		
BAP2	Basic Avian Profile	Cholesterol, AST, CK, Uric Acid, Calcium, PCV, Diff, Cellular morphology		SD	2 x HB If not possible prioritise tests and Blood smear		
AVP	Avian Profile 2	Total Protein, Albumin, Globulin, A:G ratio, Cholesterol, Bile Acids, LDH, AST, CK, Uric Acid, Calcium, Phosphorus		SD	HB		
AVPP	Avian PCR Profile	Polyomavirus, PBFD, Herpesvirus, Chlamydia, Bornavirus		4-7	E, swab, primary feathers		F
ADP	Avian Diagnostic Profile and Haemogram	AP, GGT, Total Protein, Albumin, Globulin, A:G ratio, Glucose, Cholesterol, Bile Acids, LDH, AST, CK, Urea, Uric Acid, Calcium, Phosphorus, Sodium, Potassium + Haemogram		SD	2 x HB If not possible prioritise tests and Blood smear		
AVLP	Avian Liver Profile	ALT, GLDH, GGT, Total Protein, Albumin, Globulin, A:G ratio, Bile Acids, LDH, AST, CK		SD	HB		
AVKP	Avian Kidney Profile	Total Protein, Albumin, Globulin, A:G ratio, Uric Acid, Calcium, Phosphorus, Ca:P ratio, Sodium, Potassium		SD	HB		
AFPP	Avian Feather Plucking Profile	Total Protein, Albumin, Globulin, A:G ratio, Cholesterol, Bile Acids, LDH, AST, CK, Uric Acid, Calcium, Phosphorus, T4, Chlamydia PCR + Haemogram		3-7	2 x HB If not possible prioritise tests and Blood smear		F
ZINCA	Avian Zinc			3-7	SS/SG (1ml plastic tube). No rubber components or gel		F
ASEX	Avian Sexing		<i>Please state species</i>	7	E, primary feathers		F

Please note • Prioritise tests when only a small volume of sample is submitted

See sample guide on pages 70 & 71

F Denotes a fixed price test which is non-discountable

Glucose Testing

A separated serum/spun gel is the preferred sample type for Glucose measurement. Serum/spun gel separation should be performed within 30 minutes of taking the sample. Fluoride Oxalate tubes may also be used for Glucose measurement

BFT or B12F

If adding BFT or B12F to a profile extra serum is required

Code	Test Name	AP	ALT	GLDH	GGT	Total Protein	Albumin	Globulin	A:G ratio	Glucose	Cholesterol	Bile Acids	LDH	AST	CK	Urea	Uric Acid	Calcium	Phosphorus	Ca:P ratio	Na, K	T4	Haemogram	PCV and Diff	Chlamydia PCR	Exc. VAT	F
BAP2	Basic Avian Profile										•			•	•		•	•						•			
AVP	Avian Profile 2					•	•	•	•	•	•	•	•	•	•		•	•	•								
ADP	Avian Diagnostic Profile and Haemogram	•			•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•		•				
AVLP	Avian Liver Profile		•	•	•	•	•	•	•			•	•	•	•												
AVKP	Avian Kidney Profile					•	•	•	•								•	•	•	•	•						
AFPP	Avian Feather Plucking Profile					•	•	•	•	•	•	•	•	•	•		•	•	•			•	•	•			F

Exotic, Wildlife and Zoo Profiles

Code	Name	Includes	Wkg Days	Sample	Exc. VAT	F
Rabbit						
HGML	Rabbit Haemogram	RBC, Hb, Hct, MCV, MCHC, WBC, Diff, Platelet count and comment, Cellular morphology	SD	E + Blood smear		
RABP	Rabbit Diagnostic Profile and Haemogram	AP, GGT, Total Protein, Albumin, Globulin, Glucose, Triglyceride, Bile Acids, LDH, AST, CK, Urea, Creatinine, Calcium, Phosphorus + Haemogram	SD	SS/SG + E + Blood smear		
RABB	Rabbit Diagnostic Profile	AP, GGT, Total Protein, Albumin, Globulin, Glucose, Triglyceride, Bile Acids, LDH, AST, CK, Urea, Creatinine, Calcium, Phosphorus	SD	SS/SG		
RAKP	Rabbit Kidney Profile	Total Protein, Albumin, Globulin, Urea, Creatinine, Calcium, Phosphorus + Urinalysis	SD	SS/SG + Urine		
Small Pet						
SPP	Small Pet and Exotics Profile	GGT, Total Protein, Albumin, Globulin, Glucose, Triglyceride, LDH, AST, CK, Urea, Creatinine, Sodium, Potassium, Chloride + Haemogram	SD	SS/SG + E + Blood smear		
FERP	Ferret Profile	AP, ALT, GGT, Bilirubin, Total Protein, Albumin, Globulin, Glucose, Cholesterol, CK, Urea, Creatinine, Calcium, Phosphorus, Magnesium, Sodium, Potassium, Na:K ratio, Chloride + Haemogram	SD	SS/SG + E + Blood smear		
Reptile						
HGMR	Reptile Haemogram	RBC, Hb, PCV, WBC, Diff, Platelet comment, Cellular morphology	SD	HB + Blood smear		
BRP	Basic Reptile Profile	AST, CK, Urea, Uric Acid, Calcium, Phosphorus, PCV, Diff, Cellular morphology	SD	2 x HB If not possible prioritise tests and Blood smear		
RP2	Reptile Profile 2	GGT, Total Protein, Albumin, Globulin, A:G ratio, Cholesterol, LDH, AST, CK, Urea, Uric Acid, Calcium, Phosphorus, PCV, Diff, Cellular morphology	SD	2 x HB If not possible prioritise tests and Blood smear		
RDP	Reptile Diagnostic Profile and Haemogram	AP, ALT, GLDH, GGT, Total Protein, Albumin, Globulin, A:G ratio, Glucose, Cholesterol, Triglyceride, Bile Acids, LDH, AST, CK, Urea, Uric Acid, Creatinine, Calcium, Phosphorus, Sodium, Potassium + Haemogram	SD	2 x HB If not possible prioritise tests and Blood smear		
RLP	Reptile Liver Profile	GGT, Total Protein, Albumin, Globulin, A:G ratio, Cholesterol, LDH, AST, Urea, Uric Acid, PCV, Diff, Cellular morphology	SD	2 x HB If not possible prioritise tests and Blood smear		
RKP	Reptile Kidney Profile	Urea, Uric Acid, Calcium, Phosphorus, Ca:P ratio, Sodium, Potassium, PCV, Diff, Cellular morphology	SD	2 x HB If not possible prioritise tests and Blood smear		
CHEL	Chelonian Profile and Haemogram	AP, Total Protein, Albumin, Globulin, A:G ratio, Glucose, BHB, Bile Acids, AST, CK, Urea, Uric Acid, Calcium, Phosphorus, Sodium, Potassium, Chloride + Haemogram	SD	2 x HB If not possible prioritise tests and Blood smear		
CHC	Chelonian Hibernation Check	Total Protein, Albumin, Globulin, A:G ratio, AST, Urea, Uric Acid, PCV, Diff, Cellular morphology	SD	2 x HB If not possible prioritise tests and Blood smear		
PHAS	Post Hibernation Anorexia Screen	Total Protein, Albumin, Globulin, A:G ratio, Cholesterol, AST, CK, Urea, Uric Acid, Creatinine, Calcium, Phosphorus + Haemogram	SD	2 x HB If not possible prioritise tests and Blood smear		

Please note • Prioritise tests when only a small volume of sample is submitted

See sample guide on pages 70 & 71

Glucose Testing A separated serum/spun gel is the preferred sample type for Glucose measurement. Serum/spun gel separation should be performed within 30 minutes of taking the sample. Fluoride Oxalate tubes may also be used for Glucose measurement.

BFT or B12F

If adding BFT or B12F to a profile extra serum is required

Code	Test Name	AP	ALT	GLDH	GGT	Bilirubin	Total Protein	Albumin	Globulin	A:G ratio	Glucose	BHB	Cholesterol	Triglyceride	Bile Acids	LDH	AST	CK	Urea	Uric Acid	Creatinine	Calcium	Phosphorus	Ca:P ratio	Na, K	Cl	Mg	Na:K Ratio	Urinalysis	PCV and Diff	Haemogram	Exc. VAT	F	
RABP	Rabbit Diagnostic Profile and Haemogram	•					•	•	•				•	•	•	•	•	•	•	•	•	•	•	•						•				
RABB	Rabbit Diagnostic Profile	•					•	•	•				•	•	•	•	•	•	•	•	•	•	•	•										
RAKP	Rabbit Kidney Profile						•	•	•										•	•	•	•	•											
SPP	Small Pet/Exotics Profile				•		•	•	•		•		•						•	•	•	•		•	•						•			
FERP	Ferret Profile	•	•		•	•	•	•	•		•		•						•	•	•	•	•	•							•			
BRP	Basic Reptile Profile						•	•	•										•	•	•	•	•											
RP2	Reptile Profile 2				•		•	•	•				•						•	•	•	•	•											
RDP	Reptile Diagnostic Profile and Haemogram	•	•	•			•	•	•		•		•	•	•	•	•	•	•	•	•	•	•	•	•							•		
RLP	Reptile Liver Profile				•		•	•	•				•						•	•	•	•	•											
RKP	Reptile Kidney Profile						•	•	•										•	•	•	•	•											
CHEL	Chelonian Profile and Haemogram	•					•	•	•		•		•						•	•	•	•	•	•	•							•		
CHC	Chelonian Hibernation Check						•	•	•										•	•	•	•	•											
PHAS	Post Hibernation Anorexia Screen						•	•	•				•						•	•	•	•	•	•										

Biochemistry

Exotic, Wildlife and Zoo Profiles

Code	Name	Includes	Comment	Wkg Days	Sample	Exc. VAT	F
Other Profiles							
ZEL	Elephant Profile	AP, ALT, GGT, Bilirubin, Total Protein, Albumin, Globulin, A:G ratio, Fibrinogen, Glucose, Cholesterol, AST, CK, Urea, Creatinine, Calcium, Phosphorus, Sodium, Potassium, Chloride + Haemogram		SD	SS/SG + E + Blood smear		
ZPP	Primate Profile	AP, ALT, GGT, Bilirubin, Total Protein, Albumin, Globulin, A:G ratio, Glucose, Cholesterol, AST, CK, Urea, Creatinine, Calcium, Phosphorus + Haemogram		SD	SS/SG + E + Blood smear		
ZRHH	Ruminant Profile	GLDH, GGT, Total Protein, Albumin, Globulin, A:G ratio, BHB, AST, Urea, Creatinine, Calcium, Phosphorus, Magnesium, Sodium, Potassium, Chloride + Haemogram		SD	SS/SG + E + Blood smear		
ZSMP	Small Mammal Profile	GGT, Total Protein, Albumin, Globulin, A:G ratio, Glucose, Triglycerides, LDH, AST, CK, Urea, Creatinine, Calcium, Phosphorus, Sodium, Potassium, Chloride + Haemogram		SD	SS/SG + E + Blood smear		
ZDS	Carnivore Profile	AP, ALT, GLDH, GGT, Bilirubin, Total Protein, Albumin, Globulin, A:G ratio, Glucose, Cholesterol, Bile Acids, AST, CK, Amylase, Lipase (DGGR), Urea, Creatinine, Calcium, Phosphorus, Sodium, Potassium, Na:K ratio, Chloride + Haemogram		SD	SS/SG + E + Blood smear		
ZEGPH	Equid Profile	AP, GLDH, GGT, Bilirubin, Total Protein, Albumin, Globulin, A:G ratio, Glucose, Bile Acids, LDH, AST, CK, Urea, Creatinine, Calcium, Phosphorus, Sodium, Potassium, Na:K ratio, Chloride + Haemogram		SD	SS/SG + E + Blood smear		
MM	Marine Mammal Profile	AP, ALT, GGT, Total Protein, Albumin, Globulin, A:G ratio, Glucose, CK, Amylase, Urea, Creatinine + Haemogram		SD	SS/SG + E + Blood smear		
NWMP	Native Wild Mammal Profile	AP, ALT, Total Protein, Albumin, Globulin, Glucose, Bile Acids, Urea, Creatinine, Calcium + Haemogram		SD	SS/SG + E + Blood smear		

Reproduction							
ELH	Elephant Luteinising Hormone		<i>Used to detect ovulation peaks in elephants</i>	*	SS/SG		
EPRG	Elephant Serum Progesterone		<i>Monitoring elephants as they approach parturition</i>		SD	SS/SG or HP (Not gel tube)	
FPRO	Wildlife Faecal Progesterone		<i>Pregnancy diagnosis in big cats (lions, tigers, leopards) and rhinoceroses</i>	*		Faeces x 3 Collected on consecutive days	
FE2	Wildlife Faecal Oestradiol		<i>Measuring reproductive cycle activity in big cats</i>	*		Faeces	

Glucose Testing

A separated serum/spun gel is the preferred sample type for Glucose measurement. Serum/spun gel separation should be performed within 30 minutes of taking the sample. Fluoride Oxalate tubes may also be used for Glucose measurement

See sample guide on pages 70 & 71

BFT or B12F

If adding BFT or B12F to a profile extra serum is required

*Please contact the laboratory

Code	Test Name	AP	ALT	GLDH	GGT	Bilirubin	Total Protein	Albumin	Globulin	A:G ratio	Fibrinogen	Glucose	BHB	Cholesterol	Triglyceride	Bile Acids	LDH	AST	CK	Amylase	Lipase (DGGR)	Urea	Uric Acid	Creatinine	Calcium	Phosphorus	Ca:P ratio	Na, K, Cl	Mg	Na:K ratio	Haemogram	Exc. VAT	F	
ZEL	Elephant Profile	•	•		•	•	•	•	•	•	•	•		•					•	•		•	•	•	•	•	•	•	•	•	•			
ZPP	Primate Profile	•	•		•	•	•	•	•	•	•	•		•					•	•		•	•	•	•	•	•	•	•	•	•			
ZRHH	Ruminant Profile			•	•		•	•	•	•			•									•	•	•	•	•	•	•	•	•	•			
ZSMP	Small Mammal Profile				•		•	•	•	•				•								•	•	•	•	•	•	•	•	•	•			
ZDS	Carnivore Profile	•	•	•	•	•	•	•	•	•	•	•		•					•	•		•	•	•	•	•	•	•	•	•	•	•		
ZEGPH	Equidae Profile	•		•	•	•	•	•	•	•	•	•										•	•	•	•	•	•	•	•	•	•	•		
MM	Marine Mammal Profile	•	•		•		•	•	•	•	•	•							•	•		•	•	•	•	•	•	•	•	•	•	•		
NWMP	Native Wild Mammal Profile	•	•				•	•	•	•	•	•										•	•	•	•	•	•	•	•	•	•	•		

Clinical Chemistry

Code	Name	Includes	Comment	Wkg Days	Sample	Exc. VAT	F
B12F	B12, Folate			2-4	SS/SG fasted		
BFT	Canine B12, Folate, TLI			2-4	SS/SG fasted		
BFF	Feline B12, Folate, TLI			2-4	C SS/SG fasted		
BA	Bile Acids			SD	SS/SG		
BAPF	Bile Acids Stimulation Test	Fasted and 2hr post feeding	<i>See below</i>	SD	SS/SG x 2		
ICA	Ionised Calcium	Estimated iCa at pH 7.4		2	S Separated Serum Plain tube filled to brim - no air		
GFR	Glomerular Filtration Rate		<i>Contact lab for protocol</i>	4-6	SS/SG x 3		F
SDMA	Symmetric Dimethylarginine			SD	SS/SG		
CR	Clearance Ratios	Calcium, Phosphorus, Magnesium, Creatinine, Sodium, Potassium, Chloride and ratios		SD	SS/SG + Plain urine		
ELEC	Electrolytes	Sodium, Potassium, Na:K ratio, Chloride		SD	SS/SG		
FIB	Fibrinogen			SD-1	Cit		
+FIB	Fibrinogen		<i>Add to profile</i>	1-3	Cit		
SAA	Serum Amyloid A		<i>Major APP for equine and feline</i>	1-3	SS/SG		
+SAA	Serum Amyloid A		<i>Add to profile</i>	1-3	SS/SG		
CRP	C Reactive Protein		<i>Major APP for canine</i>	2-5	SS/SG		F
+CRP	C Reactive Protein		<i>Add to profile</i>	2-5	SS/SG		F
A1AG	Alpha 1 Acid Glycoprotein		<i>Major APP for feline</i>	2-5	SS/SG		F
FRUC	Fructosamine			SD	SS/SG		
GC	Glucose Curve		<i>Up to 12 samples</i>	SD	SS/SG + OxF		
GPX	Glutathione Peroxidase (Selenium)			2-4	HB only		F
IRON	Iron			3	SS/SG		F
TIBC	Total Iron Binding Capacity and % Transferrin Saturation		<i>Iron status</i>	3	SS/SG		F
BRAF	BRAF Mutation		<i>Confirmation of canine transitional cell carcinoma (TCC). This mutation is found in the majority (but not all) cases of canine TCC</i>	10-14	Air dried or pre-stained smears, urine, sediment, fixed tissue		F
CPSE	Canine Prostate Specific Esterase		<i>Screen for benign prostatic hyperplasia</i>	7	SS/SG		
+CPS	Canine Prostate Specific Esterase		<i>Add to cytology</i>	7	SS/SG		

BAPF Bile Acids pre and post feeding - Obtain post feeding sample 2 hours after a meal sufficient in volume and composition to stimulate gallbladder contraction. Oil/fat supplementation should not be necessary. **Label tubes accordingly**

Glucose Testing

A separated serum/spun gel is the preferred sample type for Glucose measurement. Serum/spun gel separation should be performed within 30 minutes of taking the sample. Fluoride Oxalate tubes may also be used for Glucose measurement

BFT or B12F

If adding BFT or B12F to a profile extra serum is required

See sample guide on pages 70 & 71

- C** Denotes a test performed in part at our Cambridge laboratory
- S** Denotes a specialist test which is only performed at our Cambridge laboratory
- F** Denotes a fixed price test which is non-discountable

Biochemistry

Clinical Chemistry

Code	Name	Includes	Comment	Wkg Days	Sample	Exc. VAT	F
CCS	Canine Cardiac Screen	ProBNP	<i>Sample ≤ 24hrs old on receipt. If delay anticipated, submit on ice. Consider adding + TRP</i>	2-4	0.5ml separated EDTA plasma. Centrifuge EDTA within 10 minutes of sampling and place separated plasma into a plain tube labelled 'EDTA plasma'		F
FCS	Feline Cardiac Screen	ProBNP	<i>See above</i>	2-4	EP - handle as above		F
TROP	Troponin I		<i>Canine, feline and equine</i>	1-2	SS/SG		
TK	Thymidine Kinase		<i>A quantitative assay for monitoring canine and feline lymphoma with prognostic value in canines</i>	10-14	S SS/SG		F
PROT	Total Protein	Total Protein, Albumin, Globulin, A:G ratio		SD	SS/SG		
NEFA	Non-Esterified Fatty Acids			1-3	SS/SG		
LIP	Lipase (DGGR)		<i>Correlates very well with PLI</i>	SD	SS/SG		
CPLI	Canine Pancreatic Specific Lipase Immunoreactivity		<i>Pancreatic inflammatory disease</i>	3	SS/SG only fasted		F
FPLI	Feline Pancreatic Specific Lipase Immunoreactivity		<i>Pancreatic inflammatory disease</i>	3	SS/SG only fasted		F
PEP	Serum Protein Electrophoresis			4-5	SS/SG		F
UPEP	Urine Protein Electrophoresis			5-8	Plain urine		
TLI	Canine Trypsin Like Immunoreactivity		<i>Exocrine pancreatic insufficiency (if pancreatitis is suspected CPLI is the preferred test)</i>	2-6	SS/SG fasted		
TLIF	Feline Trypsin Like Immunoreactivity		<i>Exocrine pancreatic insufficiency (if pancreatitis is suspected FPLI is the preferred test)</i>	3-7	S SS/SG fasted		
VITE	Vitamin E			7-14	SS/SG or HP		F
VITD	Vitamin D			7-14	S SS/SG (1.5ml). Serum taken after overnight fast. Centrifuge within 1 hour. Freeze sample. Do not expose to sunlight. Contact Cambridge lab for further information		F
VDP	Vitamin D plus Calcitrol			7-14	S SS/SG (2.0 ml). Serum taken after overnight fast. Centrifuge within 1 hour. Freeze sample. Do not expose to sunlight. Contact Cambridge lab for further information		F
ZINC	Zinc			SD-1	S SS/SG - plastic tube (Not gel tube - No rubber components)		
NMET	Normetaneprine (Urine)			7-14	S Urine (10ml, boric acid tube)		F

See sample guide on pages 70 & 71

F Denotes a fixed price test which is non-discountable

S Denotes a specialist test which is only performed at our Cambridge laboratory

C Denotes a test performed in part at our Cambridge laboratory

BFT or B12F

If adding BFT or B12F to a profile extra serum is required

Canine and Feline Allergy Testing

Code	Name	Includes	Wkg Days	Sample	Exc. VAT	F
Canine and feline complete testing						
ALXE	Allervet PAX Complete Environmental	Over 100 allergen extracts and components tested	2-5	SS		F
ALXEF	Allervet PAX Complete Environmental and Food	Over 200 allergen extracts and components tested	2-5	SS		F
ALXF	Allervet PAX Complete Food	Over 100 allergen extracts and components tested	2-5	SS		F
Two step testing						
ALXSE	Allervet PAX Environmental Screen	Single Positive/Negative result for presence of environmental allergens	2-5	SS		F
ALXSEF	Allervet PAX Environmental and Food Screen	Single Positive/ Negative result for presence of environmental allergens plus Single Positive/ Negative result for food allergens	2-5	SS		F
ALXSF	Allervet PAX Food Screen	Single Positive/ Negative result for the presence of food allergens	2-5	SS		F
ALXE2	Expand Allervet PAX Environmental Screen	Over 100 allergen extracts and components tested	2-5	SS		F
ALXSEF2	Expand Allervet PAX Environmental and Food Screen	Over 200 allergen extracts and components tested	2-5	SS		F
ALXSF2	Expand Allervet PAX Food Screen	Over 100 allergen extracts and components tested	2-5	SS		F
Allergen specific immunotherapy						
ARTU1	Immunotherapy 5-8 Allergens		2-5	SS		F
ARTU2	Immunotherapy 1-4 Allergens		2-5	SS		F



THE PAX® - PET ALLERGY XPLORER TEST

Identifies allergens affecting animals and detects sensitisations by utilising state of the art molecular allergology. Molecular allergology helps pinpoint allergy triggers to facilitate therapy decisions and assess risk. It is the first quantitative macroarray IgE test designed specifically for animals. Single allergen components as well as whole allergen extracts are used for determination of specific IgE. The molecular components are recombinant proteins that provide a higher level of standardisation than allergen extracts and enable a more precise identification of IgE sensitisations

All samples for environmental testing are tested for the presence of cross-reactive carbohydrate determinants. If they are present CCD blockers are added to the environmental tests

MAIN ADVANTAGES OF PAX® PET ALLERGY XPLORER

- Increased sensitivity and specificity
- Automated technology, giving improved reproducibility
- CCD blocking and 2 blocking efficiency detectors.
- Over 200 allergen extracts and components included.
- Smaller sample volume. Only 0.5 ml of serum needed per test. Identification of "primary" sensitizing allergens
- Improved identification of allergen cross-reactivities, leading to better treatment selection.
- Selection of relevant allergens for specific immunotherapy

GRASS POLLENS		FOOD			MITES AND COCKROACHES		INSECT VENOMS	
Bermuda grass	<i>Cynodon dactylon</i>	Apple	Egg yolk	Pork	Storage mite	<i>Acarus siro</i>	Common wasp venom	
Kentucky blue grass	<i>Poa pratensis</i>	Barley	Herring	Potato	American house dust mite	<i>Dermatophagoideis farinae</i>	Fire Ant venom	
Meadow fescue	<i>Festuca pratensis</i>	Beef	Horse	Rabbit	European house dust mite	<i>Dermatophagoideis pteronyssinus</i>	Honeybee venom	
Orchard grass, Cocksfoot	<i>Dactylis glomerata</i>	Buckwheat	Lamb	Rice	Storage mite	<i>Glycyphagus domesticus, Lepidoglyphus destructor, Tyrophagus putrescentiae</i>	Long-headed wasp venom	
Perennial ryegrass	<i>Lolium perenne</i>	Carrot	Lentil	Salmon	German cockroach	<i>Blatella germanica</i>	Paper wasp venom	
Ryegrass, cultivated	<i>Secale cereale</i>	Chicken	Mackerel	Soy	American cockroach	<i>Periplaneta americana</i>	 <p>The answer to allergy</p>	
Timothy grass	<i>Phleum pratense</i>	Cod	Mealworm	Sunflower seed	Flea	<i>Pulex</i>		
TREE POLLENS		MOULDS AND YEASTS			WEED POLLENS			
Alder	<i>Alnus glutinosa</i>	Corn	Millet	Tomato	Dock/Sorrel	<i>Rumex crispus/acetosella</i>		
Ash	<i>Fraxinus excelsior</i>	Cow's Milk	Oat	Tuna	English Plantain	<i>Poa pratensis</i>		
Beech	<i>Fagus sylvatica</i>	Cultivated Rye	Pea	Turkey	Lamb's quarter	<i>Chenopodium album</i>		
Silver birch	<i>Betula verrucosa</i>	Egg white	Peanut	Wheat	Mugwort	<i>Artemisia vulgaris</i>		
Cypress	<i>Cupressus sempervirens</i>	EPITHELIA			Nettle	<i>Urtica dioica</i>		
Elm	<i>Ulmus campestris</i>	Cat/Dog	Guinea pig	Mouse	Pellitory	<i>Parietaria judaica</i>		
Hazel	<i>Corylus avellana</i>	Cattle	Horse	Rabbit	Ragweed	<i>Ambrosia artemisiifolia</i>		
Olive	<i>Olea Europaea</i>				Russian thistle	<i>Salsola kali</i>		
Poplar/Cottonwood	<i>Populus nigra</i>							
Privet	<i>Ligustrum vulgare</i>							
Sycamore	<i>Platanus acerifolia</i>							

Biochemistry

Toxicology

Code	Name	Includes	Comment	Wkg Days	Sample	Exc. VAT	F
GTS	General Toxicology Screen	Many drugs and compounds	<i>Suspected poisoning</i>	7-14	HB, urine, liver, stomach contents		F
GTSO	General Toxicology Screen and Organic Compounds	As above, including pesticides, herbicides, fungicides and industrial products		Up to 14	HB, urine, liver, stomach contents		F
EG	Ethylene Glycol		<i>Suspected antifreeze ingestion, also see histology page 33</i>	2-7	HB, urine, liver, stomach contents		F
HMP	Heavy Metal Screen	See below		2-7	See below		F
CO	Carbon Monoxide	Carboxyhaemoglobin		2-7	HB - fill tube to exclude air		F
META	Metaldehyde		<i>Suspected slug bait ingestion</i>	2-7	HB, urine, liver, stomach contents		F
SEIZ	Seizure Screen	Strychnine, tremorgenic mycotoxins (roquefortine, penetram A), bromethalin		2-7	Stomach contents or food sample		F
METS	Metaldehyde and Strychnine		<i>Suspected poisoning with GI and neurological signs</i>	2-7	HB, urine, liver, stomach contents		F
WARF	Warfarin and Coumarin Derivatives		<i>Suspected rodenticide toxicity</i>	Up to 21	HB, liver, stomach contents		F
LEAD	Lead - Blood			2-7	HB (2ml)		F

For drugs, therapeutic substances or poisons not listed, please contact the laboratory

HMP - Heavy Metal Screen includes:

Blood: Arsenic, Cadmium, Lead, Mercury, Selenium, Tellium

Fluid: Antimony, Arsenic, Barium, Cadmium, Chromium, Copper, Iron, Lead, Manganese, Mercury, Phosphorus, Selenium, Sodium, Sulfur, Thallium, and Zinc

Feed: Arsenic, Chromium, Lead, and Mercury

Soil: Aluminum, Antimony, Arsenic, Barium, Boron, Cadmium, Calcium, Chromium, Cobalt, Copper, Iron, Lead, Magnesium, Manganese, Mercury, Molybdenum, Phosphorus, Potassium, Selenium, Sodium, Sulfur, Thallium, and Zinc

BFT or B12F

If adding BFT or B12F to a profile extra serum is required

See sample guide on pages 70 & 71

F Denotes a fixed price test which is non-discountable

Sample Guide

- Minimum quantities of: 2ml of whole blood HB, 10ml plain urine, 10g liver/fresh tissue, 10g of feed, 5ml of stomach contents
- Formalin fixed tissues or faeces cannot be processed
- Results are available within 5-7 working days

Centre of Excellence for Histopathology

NationWide Laboratories – Newton Abbot began as Abbey Veterinary Services in 1985. We provide diagnostic veterinary histopathology services to veterinary practitioners and universities throughout the UK and worldwide. Our interest does not stop at the point of diagnosis and we are involved in research in veterinary medicine. We have contributed to publications based upon both the samples that our clients send us and also in collaboration with other veterinary centres and universities.

For more information call us 01626 353 598



Biochemistry

Therapeutics

Code	Name	Includes	Comment	Wkg Days	Sample	Exc. VAT	F
TRL	Trilostane (Vetoryl) Monitor	AP, ALT, Urea, Creatinine, Phosphorus, Total Protein, Albumin, Globulin, Cholesterol, Glucose, Sodium, Potassium, Na:K ratio, Cortisol x 2	See below	SD	SS/SG x 2 Label accordingly		
PVC	Pre Vetoryl Cortisol	Cortisol	Improved monitoring protocol	SD	SS/SG		
PVCM	Pre Vetoryl Cortisol Monitoring	AP, ALT, Urea, Creatinine, Phosphorus, Total Protein, Albumin, Globulin, Cholesterol, Glucose, Sodium, Potassium, Na:K ratio, Cortisol x 1	See below	SD	SS/SG		
CTP1	Canine Single Point Thyroid Monitor	T4, TSH	See below	SD	SS/SG		
BARB	Phenobarbitone		2-3 weeks may be required for stable blood levels to develop. (Also use for monitoring Primidone therapy). See below	SD	SS (Not gel tube)		
PMON	Phenobarbitone Monitor	Phenobarbitone, AP, ALT, Albumin, GGT, GLDH, Bile Acids	See below	SD	SS (Not gel tube)		
PMON+	Phenobarbitone monitor plus Potassium Bromide	AP, ALT, Albumin, GGT, GLDH, Bile Acids, Phenobarbitone, Potassium Bromide	See below	SD-1	SS (Not gel tube)		
KBR	Potassium Bromide		Due to the long half life serum levels may take at least 125 days to stabilise	1-3	S SS		
LEVE	Levetiracetam			2-3	SS/SG		F
GABA	Gabapentin			5-7	SS/SG		F
DMON	Diabetic Monitor	Glucose, Fructosamine	For the long term monitoring of canine and feline diabetes mellitus	SD	SS/SG		
DIGO	Digoxin		Peak and trough digoxin levels occur 4 and 12 hours post pill respectively. For therapeutic levels sample 8 hours post pill. Allow 5 days of treatment before sampling	SD-1	SS (Not gel tube)		
CMON	Cardiac Monitor	Digoxin, Urea, Creatinine, Calcium, Sodium, Potassium, Magnesium	Peak and trough digoxin levels occur 4 and 12 hours post pill respectively. For therapeutic levels sample 8 hours post pill. Allow 5 days of treatment before sampling	SD-1	SS (Not gel tube)		
NSAI	NSAID	Qualitative screen for Phenylbutazone, Flunixin, Meclofenamic Acid		2-7	SS/SG		F
PHEN	Phenothiazine			2-7	SS/SG		F
CYCL	Cyclosporin		Trough sample taken 12 hour post pill	3-7	S E		F
NSAID	NSAID Monitoring	AP, ALT, AST, Urea, Creatinine, Total Protein	No veterinary interpretation	SD	SS/SG		F

Trilostane (Vetoryl) Monitor

Cortisol: Basal and 1 hour post ACTH performed 4-6 hours post medication
 Treatment should be monitored 10 days, 4 weeks and 12 weeks after starting therapy (or following a dosage change) and thereafter every 3 months
 As an alternative it is possible to measure Pre Vetoryl Cortisol PVC

BARB Phenobarbitone and PMON Phenobarbitone Monitor

Sample anytime during normal dosing interval. Some authors suggest peak sample (5 hours post-pill). A trough sample (8-12 hours post pill) may be useful if there is a poor clinical response despite adequate peak levels

CTP1 Canine Single Point Thyroid Therapeutic Monitor

Sample at least 3 hours post-pill. Indicate hours post-pill and dose frequency (SID/BID). Trough sample may be more helpful if therapy is SID. Please label accordingly

BFT or B12F

If adding BFT or B12F to a profile extra serum is required

Please note

Serum is the preferred sample for therapeutic monitoring. Please do not use gel tubes. HP can be used unless otherwise stated. To ensure sufficient volume please send two tubes

- For monitoring canine and feline thyroid therapy please see page 23

See sample guide on pages 70 & 71

S Denotes a specialist test which is only performed at our Cambridge laboratory

F Denotes a fixed price test which is non-discountable

Glucose Testing

A separated serum/spun gel is the preferred sample type for Glucose measurement. Serum/spun gel separation should be performed within 30 minutes of taking the sample. Fluoride Oxalate tubes may also be used for Glucose measurement.

Haematology

Code	Name	Includes	Comment	Wkg Days	Sample	Exc. VAT	F
HGM	Haemogram	RBC, Hb, Hct, MCV, MCHC, WBC, Diff, platelet count and comment, Cellular morphology	<i>The CHr and Reticulocyte count are also included for Canine and Feline samples</i>	SD	E + Blood smear		
HGM-	Haemogram No Differential	RBC, Hb, Hct, MCV, MCHC, WBC, Platelet count		SD	E		
WBCD	White Cell Count and Differential	WBC, Diff, platelet count and comment, Cellular morphology		SD	E + Blood smear		
*BCM	Blood Cross Match		<i>Testing of recipient and a single donor</i>	1-2	E + SS / P (Not Gel Tube) for recipient and donor		
*+BCM	Additional Donor Cross Match			1-2	E + SS / P (Not Gel Tube) for recipient and donor		
COOM	Canine Coombs Test		<i>Diagnosis of IMHA (this is not a screen for other immune mediated diseases). Fresh sample required within 48 hours of collection</i>	SD	E		
COOF	Feline Coombs Test		<i>See above</i>	SD	E		
*CBT	Canine Blood Typing			SD	E		
*FBT	Feline Blood Typing			SD	E		
FIAP	Feline Infectious Anaemia PCR	Mycoplasma haemofelis, M. haemominutum and M. turicensis	<i>Haemotropic Mycoplasma spp</i>	7-10	E		F
FIA	Feline Infectious Anaemia	Microscopic examination		SD	Minimum 2 fresh blood smears		
DIRO	Dirofilaria Immitis (Heartworm)	Blood film exam for microfilariae, Knott test, circulating Dirofilaria antigen		SD-1	SS/SG + E		F
LWA	Angiostrongylus Vasorum Antigen		<i>Specific detection test for Angiostrongylus vasorum</i>	SD-1	SS/SG		F
RETI	Reticulocyte Count		<i>Absolute count and percentage</i>	SD	E		
BUFF	Buffy Coat Examination			SD	E		

Clotted Samples

- If the EDTA/Citrate sample is clotted when a stand alone haemogram is requested the charge will be removed. If fresh smears are provided, a chargeable film examination can be requested by contacting the laboratory
- If the haemogram is included in a profile (eg SPH) the requested test will be completed on receipt of a further suitable sample labelled with the appropriate laboratory reference number

*BCM, +BCM, CBT, FBT - Prior to transfusion you may wish to contact the laboratory to determine the most appropriate test (blood typing or cross matching)

Sample Guide for Haematology

- When haematology is required please submit two fresh air dried blood smears
- Please use EDTA anticoagulant for haematology, heparin does not preserve mammalian WBCS
- Coagulation parameters may be adversely effected if citrate tubes are under filled, please ensure tubes are filled to the line
- Reticulocyte counts are included in the haemogram when canine haemoglobin is <8.0g/dl, feline haemoglobin is <6.0g/dl

See sample guide on pages 70 & 71

F Denotes a fixed price test which is non-discountable

Coagulation

Code	Name	Includes	Comment	Wkg Days	Sample	Exc. VAT	F
OSPT	One Step Prothrombin Time		<i>Early detection of Vitamin K antagonism and monitoring response to Vitamin K therapy</i>	SD	CitP		
APTT	Activated Partial Thromboplastin Time			SD	CitP		
COAG	Coagulation Screen	OSPT, APTT + Haemogram		SD	CitP + E + Blood smear		
COA+	Comprehensive Coagulation	OSPT, APTT, fibrinogen, D-Dimer + Haemogram	<i>Investigation of coagulopathies including DIC</i>	SD-1	CitP + E + Blood smear		
DDIM	D-Dimer		<i>Assessment of DIC status in dogs and cats</i>	SD-1	CitP		
FIB	Fibrinogen			SD-1	CitP		
PLT	Platelet Count	Automated count, comment based on smear examination		SD	CitP or E + Blood smear		
HA	Haemophilia A	Factor VIII	<i>Contact us for information on other factors</i>	7-14	CitP		F
HA9	Haemophilia B	Factor IX	<i>Contact us for information on other factors</i>	7-14	CitP		F
VW	Von Willebrand's Disease Antigen			7-14	CitP		F
GWWD	Von Willebrand's Disease DNA			Up to 28	Swabs available on request		F

Please note

- **CitP** - Fill the citrate plasma tube to the line indicated (the correct blood to anticoagulant ratio is important for accurate results). Gently invert the tube several times to prevent clotting. Check the tube carefully for any clots, if these form the sample must be discarded and the patient resampled. Centrifuge asap @1500rpm for 15mins. Transfer the plasma into a plain tube and clearly label "citrated plasma"
- Freeze at -20°C until shipped for analysis. Ship on cold pack or dry ice

See sample guide on pages 70 & 71

F Denotes a fixed price test which is non-discountable

Immunology

Code	Name	Includes	Comment	Wkg Days	Sample	Exc. VAT	F
2MAB	Muscle Fibre Antibody Type 2M		<i>To assist in the diagnosis of masticatory myositis</i>	14-21	S SS/SG		F
ACRA	Acetylcholine Receptor Antibody		<i>To assist in the diagnosis of acquired myasthenia gravis</i>	14-21	S SS/SG		F
ANA	Canine Anti-Nuclear Antibody Test			2-7	SS/SG		F
ANAF	Feline Anti-Nuclear Antibody Test			2-7	SS/SG		
CIGG	Canine IgG			1-5	SS/SG		
CIGM	Canine IgM			1-5	SS/SG		
CIGS	Canine Immunoglobulin Screen	IgG, IgM		1-5	SS/SG		
RHF	Canine Rheumatoid Factor			2-7	SS/SG		F
RHFF	Feline Rheumatoid Factor			2-7	SS/SG		F
CECS	Canine Epileptoid Cramping Syndrome Test in Borders Terriers	Anti-Gliadin IgG and Anti-transglutaminase IgG	<i>To assist in the diagnosis of Canine Epileptoid Cramping Syndrome (CECS) in Border Terriers</i>	Up to 6	SS/SG		F

S Denotes a specialist test which is only performed at our Cambridge laboratory

F Denotes a fixed price test which is non-discountable

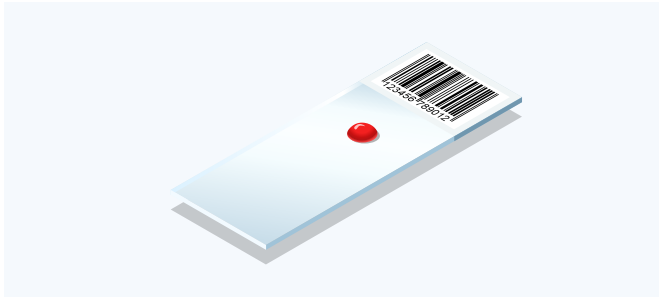
See sample guide on pages 70 & 71

Haematology

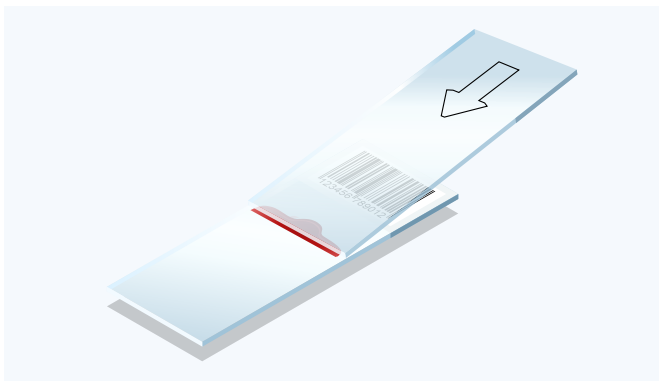
Preparing a Blood Smear

Preparation of Blood Smears

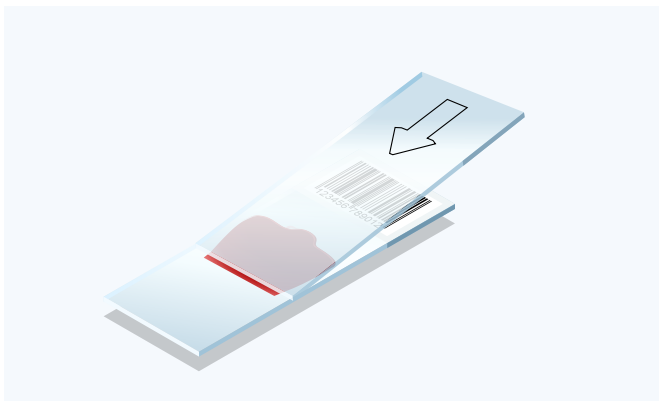
- 1 Ensure that the slide is clean since dirt and grease will affect the quality of the smear. Slides should not be left uncovered on the top of the bench
- 2 Using a small pipette or microhaematocrit tube, place a drop of fresh whole blood 4mm in diameter near the frosted end of the horizontal slide



- 3 Rest the spreader slide at a 25° angle on the horizontal slide. Bring the slide carefully up to the drop of blood



- 4 The drop should flow along the edge of the spreader slide
- 5 Keep the spreader slide at a 25° angle with light but firm pressure against the horizontal slide. Increasing the angle results in a thicker smear, decreasing the angle produces a thinner smear



- 6 Draw the spreader slide rapidly and smoothly over the length of the horizontal slide, leaving a thin, even film of blood
- 7 Leave the slide to air dry on a flat surface



- 8 Label the slide using a pencil with the animal and owner name, and the date of sampling
- 9 Place the slide in a slide mailer (available on request). This protects the slide from scratches and moisture
- 10 Store slides at room temperature prior to despatch – do not refrigerate

For haemotrophic feline *Mycoplasma spp.* examination EDTA blood must not be used. Submit 4-6 smears prepared from freshly drawn blood

Troubleshooting

- 1 Once the drop of blood is placed on the slide, there should be no delay in making the smear. Any delay will result in abnormal distribution of the white cells with many of these accumulating at the thin edge of the smear. Rouleaux formation and clumping of platelets may also occur
- 2 Avoid making the initial drop of fresh blood too large, or too small
- 3 Do not jerk the spreader slide across the horizontal slide, use a rapid, smooth action
- 4 Ensure the edge of the spreader slide remains in contact with the horizontal slide at all times
- 5 Maintain the 25° angle unless the blood looks watery (anaemic), in this case increase the angle of the spreader slide to make a thicker smear

MORE AUTOMATED AND USER FRIENDLY!

EQA Scheme

Module 9 of The Royal College of Veterinary Surgeons Practice Standards Scheme states: "In addition to internal quality control of automated laboratory tests, external quality assurance, by internal analysis of external samples via a QA scheme or by comparing internal samples to external labs, must be routinely undertaken and the results documented and acted on where necessary."

NationWide Laboratories operates an independent National EQA scheme for all practices and for a wide range of analytical equipment brands. This ensures that equipment and reagent problems that uniformly affect a single brand will be identified. Reports will be generated from the data submitted and provided to individual participants or group practice headquarters.

Code	Name	Exc. VAT
EQAB	Biochemistry bi-monthly scheme	F
EQAH	Paired sample comparison testing bi-monthly scheme	F
EQABH	Full annual subscription for bi-monthly biochemistry and paired sample comparison testing	F

For further information and to register contact us on 01253 899215 or via email info@nwlabs.co.uk

Blood Sampling without tears and haemolysis

- Ideally sample when fasted, this will prevent post prandial lipaemia and secondary haemolysis; fasting may not be possible with rabbits and exotics. The exception is post feeding bile acids
- Choose a quiet, calm environment and use firm but gentle restraint. Stressed, struggling animals and hurried procedures increase the likelihood of sample haemolysis and elevated muscle enzymes
- Avoid sedation when possible, sedatives such as medetomidine may cause transient but marked hyperglycaemia
- Sample from a large easily accessible vein, usually the jugular, cephalic or saphenous vein but species variations apply
- Clip and swab the site, this helps to identify the vein, use pressure as appropriate to raise the vein
- Use the largest needle possible and a syringe appropriate for the volume of blood required. Too large a syringe will create excessive negative pressure and increase the risks of haemolysis. "Vacutainers" generally are not recommended for small animals; they may collapse the vein and increase the risk of haemolysis
- Use steady pressure to withdraw the plunger. For small patients it may be possible to collect blood from the hub of the needle directly into the collection tube
- If repeated blood sampling is indicated, or the sample is drawn prior to chemotherapy, place an indwelling catheter
- Remove the needle from the syringe prior to transferring blood into appropriate collection tube(s). Express blood gently and fill to the correct level - usually indicated by a horizontal line on the tube. Tubes containing anticoagulant should be capped and rolled gently to prevent clot formation
- Do not transfer samples from EDTA into alternative tubes (eg when blood is initially aliquoted into the wrong collection tube), this has a detrimental effect on the measurement of Alkaline Phosphatase, Calcium, Potassium and coagulation studies
- When taking blood for a haemogram make a fresh smear immediately, with blood from the syringe barrel, not the EDTA or heparin tube. This will help to preserve cell morphology and increase the likelihood of detecting feline *Mycoplasma spp.* in cats with suspected Feline Infectious Anaemia
- Samples should be stored in a cool, dark place before analysis or dispatch to the laboratory
- Samples for biochemistry can be centrifuged (plain or heparin tubes) or allowed to clot (plain or gel tube) to harvest the plasma or serum. Removal of the cellular components will prevent haemolysis and is particularly relevant when samples are submitted to an external laboratory

Endocrinology

Thyroid

Code	Name	Includes	Comment	Wkg Days	Sample	Exc. VAT	F
Individual thyroid tests							
T4	Total Thyroxine			SD	SS/SG		
+T4	T4 add to profile			SD	SS/SG		
T4RA	Total T4	T4 by RIA		SD	S SS/SG HP		
T4NI	Total Thyroxine No Veterinary Interpretation			SD	SS/SG		
FT4E	Free T4 by Equilibrium Dialysis			2-4	S SS/SG		
FHTPC	Feline Hyperthyroid Profile Basic (T4, FT4ED)	T4 by RIA & FT4D		2-4	S SS/SG		
+FT4D	Free T4 by Equilibrium Dialysis	FT4D	Add to T4 or profile for cats. Add to CTP1 if previous TGAA positive or concurrent glucocorticoid therapy for dogs.	2-4	S SS/SG		
CTSH	TSH			SD	SS/SG		
TSH	TSH	TSH by ELISA		2-7	SS/SG		
+ TSH	TSH	TSH	Add to T4 or FHM when T4 is low, to differentiate iatrogenic hypothyroidism from non-thyroidal illness		S SS/SG		
THAB	T4 and T3 Antibodies			2-7	S SS/SG		
T4AA	T4 Antibodies			2-7	S SS/SG		
TGAA	Canine Thyroglobulin Autoantibodies		Serum marker for lymphocytic thyroiditis	7-14	S SS/SG		
+TGA	Canine Thyroglobulin Autoantibodies		Add to profile	7-14	S SS/SG		
T3	Triiodothyronine			2-7	S SS/SG		
Diagnostic profiles							
CTP1	Canine Mini Thyroid Profile	T4, TSH	Can also be used as a therapeutic monitor in cats (FTP1). If monitoring, sample at least 3 hours post-pill. Indicate hours post-pill and dose frequency (SID/BID). Trough sample may be more helpful if therapy is SID. Please label accordingly.	SD	SS/SG		
TP1	Canine Basic Profile	T4, TSH	T4 by RIA	2-4	S SS/SG HP		
TP2	Canine Bronze Profile	TRH Stim (T4 x 2 by RIA, TSH)		2-4	S SS/SG HP		
TP3	Canine Gold Profile	FT4D, TSH, TGAA		2-14	S SS/SG HP		
TP4	Canine Silver Profile	FT4D, TSH		2-4	S SS/SG HP		
TP5	Canine Platinum Profile	T4, FT4D, TSH, TGAA		2-14	S SS/SG HP		
TP6	Canine Copper Profile	T4, FT4D, TSH		2-4	S SS/SG HP		
TP7	Canine Steel Profile	FT4D, TGAA		2-14	S SS/SG HP		
CTP5	Canine Standard Thyroid Profile	T4, TSH, TGAA	Recommended initial test	SD TGAA 7-14	C SS/SG		
CTP6	Canine Premium Thyroid Profile	T4, FT4D, TSH, TGAA	Comprehensive evaluation of the canine thyroid, also indicated if non-thyroidal disease or concurrent therapy	SD TGAA 7-14	C SS/SG		

***CTP1 Canine Single Point Thyroid Therapeutic Monitor**

Sample at least 3 hours post-pill. Indicate hours post-pill and dose frequency (SID/BID). Trough sample may be more helpful if therapy is SID. Please label accordingly

See sample guide on pages 70 & 71

- S** Denotes a specialist test which is only performed at our Cambridge laboratory
- C** Denotes a test performed in part at our Cambridge laboratory

Endocrinology

Thyroid

Code	Name	Includes	Comment	Wkg Days	Sample	Exc. VAT	F
Diagnostic profiles [continued]							
CTP7	Canine Two Point Thyroid Monitor	T4 x 2, TSH	Thorough evaluation of current and recent therapy. It is essential to sample 4 hours post treatment for peak then 8 hours later (if BID therapy) or 20 hours later (if SID therapy), for trough sample	SD	SS/SG x 2		
GTP1	Greyhound Thyroid Investigation	T3, T4, TSH, TGAA		2-14	S SS/SG HP		
GTP2	Greyhound Thyroid Monitoring	T3, T4, TSH		2-7	S SS/SG HP		
Individual thyroid tests							
FHTP	Feline Hyperthyroid Profile	T4, FT4D	Most thorough initial approach	2-4	S SS/SG		
FTP1	Feline Premium Single Point Thyroid Monitor	T4, TSH	When concerned about over-treatment	SD	SS/SG		
BFSP	Feline Hyperthyroid Profile - Silver	T4 by RIA, ALT, ALP, Total Protein, Urea, Creatinine, Phosphorus		2-4	S SS/SG		
BFGP	Feline Hyperthyroid Profile - Gold	T4 by RIA, FT4D, ALT, ALP, Total Protein, Urea, Creatinine, Phosphorus		2-4	S SS/SG		
FT3S	Feline T3 suppression Test	T3 x 2, T4 x 2		2-7	S SS/SG HP		
FHM	Feline Hyperthyroid Monitor	Creatinine, Calcium, Phosphorus, T4 + Haemogram		SD	E + SS/SG		

See sample guide on pages 70 & 71

S Denotes a specialist test which is only performed at our Cambridge laboratory

Your CPD with NationWide Laboratories

We offer a wide variety of CPD opportunities to the veterinary professionals. Join our live online lectures or watch them on demand. Look out for our digital learning hubs with the Veterinary Practice and the Webinar Vet. Come to see us at the major veterinary conferences and congresses.

The image shows a collection of digital learning materials from NationWide Laboratories. Key items include:

- Lunchtime basic bitesize pathology: Small animal mammary pathology:** A brochure with learning objectives such as 'Identify common mammary tumours in dogs and cats' and 'Understand different types of mammary tumours in dogs and cats'.
- Cytology: How to get the best of it working as a team:** A brochure with learning objectives like 'Association between presumptive diagnosis and types of samples' and 'Errors to avoid when taking and sending the sample to the lab'.
- Exotics: CPD bundle:** A bundle of materials for exotic species, including 'Common Conditions in Uncommon Species' and 'My Approach to the Anorectic Rabbit'.
- Presented by Madonna Livingstone:** A webinar or lecture material.

For more information about CPD options or to request our dedicated CPD brochure please contact us at info@nwlabs.co.uk

Endocrinology

Other Hormones

Code	Name	Includes	Comment	Wkg Days	Sample	Exc. VAT	F
INS	Insulin		<i>Sample when hypoglycaemic if insulinoma suspected. Syndromes of insulin resistance (includes Equine Metabolic Syndrome and hyperadrenocorticism). If Separated Serum or OxF is included glucose and an insulin: glucose ratio will be provided</i>	2-7	S SS/SG + OxF		
INAB	Insulin Antibodies		<i>Investigation of increased insulin requirement in diabetics</i>	7-14	S SS/SG		F
IGF	Canine and Feline Insulin-Like Growth Factor		<i>Investigation of pituitary dwarfism, acromegaly, nutritional status and insulin resistant diabetic cats</i>	3-7	S SS/SG		
PTH	Parathyroid Hormone		<i>Investigation of calcium disorders. Identification and monitoring of renal secondary hyperparathyroidism</i>	1	S EP Important: sample must be shipped frozen, please contact the laboratory for instructions		F
PRP	Parathyroid Hormone Related Peptide		<i>Indication of certain neoplasms responsible for humoral hypercalcaemia of malignancy</i>	2-7	S EP Handle as above		F
PTHR	PTH + PTHrP	PTH, PTRH		2-7	S EP Handle as above		F
PTHI	Parathyroid Hormone Plus Ionised Calcium		<i>Investigation of calcium disorders and assessment of the impact of renal disease on calcium homeostasis Estimated ionised calcium at pH7.4</i>	2-7	S SS/HP for ionised calcium, frozen EDTA plasma for PTH		F
PTHP	Parathyroid Hormone, Parathyroid Hormone Related Peptide Plus Ionised Calcium			2-7	S SS/HP for ionised calcium frozen edta plasma for PTH and PRP		F

See sample guide on pages 70 & 71

S Denotes a specialist test which is only performed at our Cambridge laboratory

F Denotes a fixed price test which is non-discountable

Specialist Laboratory

NationWide Specialist Laboratories is part of our group specialising in veterinary endocrinology. We have a wide range of knowledge, expertise and equipment and our diagnostic services are supported by access to several world-renowned veterinary clinical and laboratory endocrinologists. We use a wide range high quality techniques for hormone analysis, including highly sensitive radioimmunoassays.

For more information on our unique yet essential endocrinology services please call 01223 493400

Specialists in Endocrinology **Experts in Immunoassay**



Endocrinology

Adrenal and Pituitary

Code	Name	Includes	Comment	Wkg Days	Sample	Exc. VAT	F
CORT	Cortisol Baseline			SD	SS/SG		
CORR	Cortisol Baseline by RIA			SD	S SS/SG		
ACTH	ACTH Stimulation Test	Cortisol x 2: Basal and 1hour post ACTH	<i>See also Trilostane (Vetoryl®) Monitor (TRL) on following page</i>	SD	SS/SG x 2		
ACTN	ACTH Stimulation Test No Veterinary Interpretation			SD	SS/SG x 2		
ACT2	ACTH Stimulation Test	Cortisol x 2: Basal and 1hour post ACTH by RIA		SD	S SS/SG x 2		
ACT3	Feline ACTH Stimulation Test	Cortisol x 3 by RIA		SD	S SS/SG x 3		
DSCR	Canine Dexamethasone (Low Dose) Suppression Test	Cortisol x 3: Basal, 3 hours and 8 hours post dexamethasone		SD	SS/SG x 3		
DSCN	Canine Dexamethasone (Low Dose) Suppression Test No Veterinary Interpretation			SD	SS/SG x 3		
DSUP	Canine Dexamethasone (High Dose) Suppression Test	Cortisol x 3: Basal, 3 hours and 8 hours post dexamethasone	<i>Differentiation of pituitary vs adrenal dependent HAC following a positive ACTH or DSCR test</i>	SD	S SS/SG x 3		
DEX3	Dexamethasone Screen / Suppression Test	Cortisol x 3 by RIA		SD	S SS/SG x 3		
DXAC	Feline Combined Dexamethasone Suppression and ACTH Stimulation Test	Cortisol x 3: Basal, 2-4 hours post dexamethasone, 1 hour post ACTH		SD	SS/SG x 3		
CDXA	Feline Combined Dexamethasone Suppression and ACTH Stimulation Test	Cortisol x 3 by RIA		SD	S SS/SG x 3		
CACTH	Canine Endogenous ACTH		<i>Differentiation of pituitary vs adrenal dependent HAC following a positive ACTH or DSCR test</i>	7-10	S	EP - Important: sample must be shipped frozen. Contact lab for instructions	F
FACTH	Feline Endogenous ACTH			7-10	S	EP - Important: sample must be shipped frozen. Contact lab for instructions	F
CAR	Cortisol to ACTH ratio - Canine			7-10	S	Frozen ep for ACTH SS/SG for cortisol	F
ALDO	Aldosterone Baseline		<i>Screen for primary hypoadrenocorticism (Addison's). Investigation of hypokalaemia, hypertension or assessment of RAAS activity pre ACE-inhibitor therapy</i>	2-7	S SS/SG		
ALDP	Aldosterone ACTH Stimulation Test	Aldosterone x 2: Basal and 1 hour post ACTH	<i>Confirmation of primary hypoadrenocorticism (Addison's) after glucocorticoid therapy has been initiated. Differentiation of pituitary vs adrenal based hypoadrenocorticism. Investigation of hypokalaemia and hypertension</i>	2-7	S SS/SG x 2		

See sample guide on pages 70 & 71

S Denotes a specialist test which is only performed at our Cambridge laboratory

F Denotes a fixed price test which is non-discountable

Please note

For stimulation test protocols
see pages 68 and 69

Endocrinology

Adrenal and Pituitary

Code	Name	Includes	Comment	Wkg Days	Sample	Exc. VAT	F
HTHK	Hypertension/ Hyperkalaemia Investigation	Plasma Renin, Aldosterone, Na:K		7-21	S SS/SG for ALDO and electrolytes frozen EDTA plasma for renin.		F
REN	Renin	Renin		7-21	S EP - Important: sample must be shipped frozen. Contact lab for instructions		F
ADDP	Canine Addisonian Profile	2 x Cortisol, Aldosterone, Na:K		2-7	S SS x 2		
BFAP	Feline Addisonian Profile	3 x Cortisol, Aldosterone, Na:K		2-7	S SS x 3		
SHAPC	SHAP	2 x Cortisol by RIA, 2 x OHP		2-7	S SS x 3		
OHP	17-OH-Progesterone			2-7	S SS		
OHP2	17-OH-Progesterone ACTH Stimulation	17-OH-Progesterone x 2: Basal and 1 hour post ACTH		7	S SS/SG x 2		
ANDR	Androstenedione				S SS 0.5mL	Run on alternate Mondays. Please check with customer services for details	
TENP	Canine Adrenal Panel	2 x Oestradiol, Testosterone, Progesterone, OHP, Cortisol, Andro		14	S SS 2 x 2mL (Not gel tube)		F
SHAP	Sex Hormone Alopecia Profile	Cortisol x 2, 17-OH-Progesterone x 2: Basal and 1 hour post ACTH	<i>Alopecia X</i>	2-7	S SS/SG x 2		
TRL	Trilostane (Veteryl) Monitor	AP, ALT, Urea, Creatinine, Phosphorus, Total Protein, Albumin, Globulin, Cholesterol, Glucose, Sodium, Potassium, Na:K ratio, Cortisol x 2	<i>See below</i>	SD	SS x 2 + OxF		
PVC	Pre Veteryl Cortisol	Cortisol	<i>Improved monitoring protocol</i>	SD	SS		
PVCM	Pre Veteryl Cortisol Monitoring	AP, ALT, Urea, Creatinine, Phosphorus, Total Protein, Albumin, Globulin, Cholesterol, Glucose, Sodium, Potassium, Na:K ratio, Cortisol	<i>See below</i>	SD	SS + OxF		
CCR	Urine Cortisol Creatinine Ratio		<i>Screen to rule out hyperadrenocorticism. Not suitable for confirmation. Morning sample collected at home by the owner</i>	2	C Plain urine		
FP1	Ferret Adrenal Profile	Oestradiol, OHP		2-7	S SS		
FP3	Ferret Adrenal Profile Plus	Oestradiol, OHP, Androstenedione		2-14	S SS		
SALC	Salivary Cortisol		<i>All species including Guinea Pig</i>	2-14	S Saliva		F

Please note

For stimulation test protocols see pages 68 and 69

Trilostane (Veteryl) Monitor

Cortisol: Basal and 1 hour post ACTH performed 4-6 hours post medication
Treatment should be monitored 10 days, 4 weeks and 12 weeks after starting
therapy (or following a dosage change) and thereafter every 3 months
As an alternative it is possible to measure Pre Veteryl Cortisol PVC

See sample guide on pages 70 & 71

S Denotes a specialist test which is only performed at our Cambridge laboratory

C Denotes a test performed in part at our Cambridge laboratory

NationWide Specialist Laboratories

Code	Name	Includes	Comment	Wkg Days	Sample	Exc. VAT	F
FLMZ	Basic Felimazole® Monitor (T4)	T4 by RIA		SD	SS/SG HP		
FLMP	Felimazole® Monitor Plus (T4 + Chemistries)	T4 by RIA & ALT, AP, Phosphorus, Urea, Creatinine		SD	SS/SG HP		
GCTA	GCT Profile A - AMH & Progesterone	AMH & Progesterone		7-11	SS/SG HP		
GCTB	GCT Profile B - AMH, Progesterone & Testosterone	AMH, Progesterone & Testosterone		2-7	SS/SG HP		
GCTP	GCT Profile Plus - AMH, Progesterone, Testosterone & Inhibin-B	AMH, Progesterone, Testosterone & Inhibin-B		14-21	SS/SG HP		F
SOLX	Canine Leventa™ Therapy Monitoring Basic (T4)	T4 by RIA		SD	SS/SG HP		
SOLP	Canine Leventa™ Therapy Monitoring Plus (T4/TSH)	T4 by RIA & TSH ELISA		2-7	SS/SG HP		
PMON	Phenobarbitone Monitoring Profile (Phenobarbitone, AP, ALT, Albumin, GGT, GLDH, Bile Acid)	Phenobarbitone, AP, ALT, Albumin, GGT, GLDH, Bile Acid		SD	SS (Not gel tube)		
KBRM	Potassium Bromide Monitoring Profile (KBR, Urea, Creatinine, Phosphorus)	Potassium Bromide, Urea, Creatinine, Phosphorus		SD	SS/SG HP		
TRXP	Thyforon® Monitor Plus (T4/TSH)	T4 by RIA & TSH ELISA		2-7	SS/SG HP		
THRX	Basic Thyforon® Monitor (T4)	T4 by RIA		SD	SS/SG HP		
VTRP	Vetoryl® Monitor Plus (2 x Cortisol + Chemistries)	2 x Cortisol by RIA & ALT, AP, Total Protein, Albumin, Globulin, A:G ratio, Creatinine, Cholesterol, Glucose, Sodium, Potassium, Na:K ratio, Chloride, Phosphorus, Urea,		SD	SS/SG HP		
VTRL	Basic Vetoryl® Monitor (2 x Cortisol, Na:K)	2 x Cortisol by RIA & Sodium, Potassium, Na:K ratio, Chloride,		SD	SS/SG HP		
CORV	Single Pre-Pill Vetoryl® Monitor (1 x Cortisol, Na/K)	1 x Cortisol by RIA & Na:K		SD	SS/SG HP		
COVP	Single Pre-Pill Vetoryl® Monitor Plus (1 x Cortisol, + Chemistries)	1 x Cortisol by RIA & ALT, AP, Total Protein, Albumin, Globulin, A:G ratio, Creatinine, Cholesterol, Glucose, Sodium, Potassium, Na:K ratio, Chloride, Phosphorus, Urea,		SD	SS/SG		
VDAL	Feline Vidalta™ Therapy Monitoring Basic (T4)	T4 by RIA		SD	SS/SG HP		
VDLP	Feline Vidalta™ Therapy Monitoring Plus (T4 + Chemistries)	T4 by RIA & ALT, AP, Total Protein, Albumin, Globulin, A:G ratio, Creatinine, Cholesterol, Glucose, Sodium, Potassium, Na:K ratio, Chloride, Phosphorus, Urea,		2-7	SS/SG HP		
ZYC	Zycortal Monitor (Na/K/Cl)	Sodium, Potassium, Na:K ratio, Chloride		SD	SS/SG HP		
ZYCA	Zycortal Advance Monitor (cACTH/Renin)	Endogenous ACTH & Renin		7-14	EP - Important: sample must be shipped frozen. Contact lab for instructions		

*** Special Transport**

If you have any questions about sample special transportation, please contact the lab 01223 493 400
For samples sent from Poulton to Cambridge, allow extra day/weekend for transport

F Denotes a fixed price test which is non-discountable

Endocrinology

Reproduction

Code	Name	Includes	Comment	Wkg Days	Sample	Exc. VAT	F
*PSDR	Progesterone Same Day	Quantitative progesterone	<i>Ovulation detection, breeding date estimation and timing of whelping</i>	SD	SS (Not gel tube)		
PROG	Progesterone	Quantitative progesterone by RIA	<i>Non-canine species Equine pregnancy 18-25 days</i>	2-4	S SS (Not gel tube)		
PREM	Progesterone for Mating	Progesterone by RIA		SD	S SS (Not gel tube)		
FHCG	Feline Progesterone Testing	Progesterone by RIA x 2 (Feline hCG Stim Test)		SD	S SS (Not gel tube)		
CVS	Canine Vaginal Smear		<i>Staging the oestrus cycle. Repeat sampling at 48 hour intervals may be required for oestrus detection</i>	SD-1	Air dried smear		
OVA	Canine Ovarian Activity	Oestradiol x 2: Basal and post stimulation	<i>Detection of active residual ovarian tissue in spayed bitches</i>	2-7	S SS/SG x 2		
OVAF	Feline Ovarian Activity	Progesterone x 2: Basal and post stimulation	<i>Detection of active residual ovarian tissue in spayed cats</i>	2-4	S SS (Not gel tube)		
AMH	Anti-Mullerian Hormone		<i>Detection of ovarian and testicular tissue in many species</i>	7-10	S SS/SG		
AMHP	AMH & Progesterone	AMH, Progesterone		7-10	S SS (Not gel tube)		
AMHE	AMH & Oestradiol	AMH, Oestradiol		7-10	S SS/SG		
AMHEP	AMH, Oestradiol & Progesterone	AMH, Oestradiol, Progesterone		7-10	S SS/SG		
PMSG	PMSG		<i>Equine pregnancy 40-80 days Not suitable for donkeys</i>	2-7	S SS/SG		
OSP	Oestrone Sulphate Pregnancy			2-7	S SS/SG		
E2	Oestradiol		<i>Canine sertoli cell tumour, follicular activity and oestrus</i>	2-7	S SS/SG		
TEST	Testosterone			2-7	S SS/SG		
HCG	Rig Test	Testosterone x 2: Basal and post stimulation		2-7	S SS/SG x 2		
RIG3	Canine and Feline Cryptorchidism	Testosterone x 2: Basal and post stimulation	<i>See page 68 for protocol</i>	2-7	S SS/SG x 2		
INH	Inhibin-B		<i>Equine granulosa cell tumours</i>	14-21	S SS/SG		F
RELX	Canine Pregnancy Test	Relaxin	<i>Sample bitches from 28 days post mating, queens from 31 days post mating</i>	2-7	S Frozen SS		
FAECAL	Faecal Reproduction Analysis			7-21	S Faeces		F

*PSDR

Samples may be required every 24 - 48 hours until pre-ovulatory luteinisation is detected

**OS

Ultrasound examination is the most sensitive procedure to confirm pregnancy in donkeys. OS levels may be low, particularly towards term, leading to false negative results

See sample guide on pages 70 & 71

S Denotes a specialist test which is only performed at our Cambridge laboratory

F Denotes a fixed price test which is non-discountable

Please note

For stimulation test protocols see pages 68 and 69

NationWide

Collection Protocols

PTH or ACTH collection pack + protocol

Preparation of the transport pack T

THE TRANSPORT PACK MUST BE FROZEN FOR AT LEAST 24 HOURS BEFORE DESPATCH WITH THE SAMPLE

When the transport pack is received from us carefully remove the plastic container from inside the polystyrene insulation box - **DO NOT THROW AWAY THE OUTER POLYSTYRENE INSULATION BOX OR THE ELASTIC BAND.** These are part of the transport packs and a charge will be incurred if they are lost.

Loosen the lid(s) slightly and place the container in a freezer **lying flat for a minimum of 24 hours.**

Once the pack is **frozen**, unscrew the lid(s) and place the **frozen** sample(s) in the holes, do not use force but gently slide the **frozen** sample(s) into the container.

Note: Do not place an un-frozen plasma sample in the frozen pack as it will not freeze sufficiently, samples **MUST** be frozen separately first, and then placed in the pack prior to dispatch.

Immediately prior to dispatch, remove the container from the freezer and **place back in the polystyrene insulation box, secure with the elastic band**, wrap the box well in newspaper or other insulative material and **place in another box or a jiffy bag**, affix our label to outside of package and dispatch.

The sample needs to be returned to us in the transport pack by a guaranteed next day delivery, the Royal Mail Guaranteed **NEXT DAY Special Delivery** service can be used for this.

DO NOT POST ON FRIDAYS as the lab is closed all weekend. **Please do not write on our transport boxes.**

Canine/feline ACTH, PTH, PTHrP and Renin collection protocol

Preparation of the blood sample

1ml EDTA or Aprotinin plasma is required. If running PTH and PTHrP it is recommended to send two separate EDTA/Aprotinin samples of at least 0.5ml each so we can avoid freeze/thaw cycles of the sample for running PTH and PTHrP.

Take a 3-5ml blood sample and put into the enclosed fridge cooled Aprotinin EDTA tube (**preferred for PTHrP analysis**). Alternatively blood can be taken into several small fridge cooled **EDTA tubes (PTH analysis)**.

Mix gently, but very well, by inversion at least 10 times and centrifuge as quickly as possible. Note: If the Aprotinin EDTA tube will not fit into your centrifuge, then carefully transfer the well mixed blood into cooled tubes that do fit into the centrifuge.

Transfer the plasma into another **EDTA** tube and mix gently.

Note: Use a tube(s) you are sure will fit into the compartments in the transport box.

Label the tube with “EDTA plasma” and animal/owner name.

Immediately place the separated plasma sample(s) directly in a freezer **separate from the pack and not inside the transport pack**, to freeze. Keep frozen until dispatching in the transport pack.

Ionised calcium and PTH are run every day, PTHrP is set up on Wednesday and reported Thursday afternoon. Canine ACTH is run on Monday and reported same day. Equine ACTH is available next day.

Cyto/Histology

Cytology

Code	Name	Includes	Comment	Wkg Days	Sample	Exc. VAT	F
CYTO	Cytology of Smears	Cytological examination of fine needle aspirates and impression smears	<i>1 - 3 sites, up to 6 slides</i>	1-4	See sample guide		
CYT4	Cytology of Smears	As above	<i>4 - 5 sites, up to 10 slides</i>	1-4	See sample guide		
CYT8	Cytology of Smears	As above	<i>6 - 8 sites, up to 16 slides</i>	1-4	See sample guide		
CTTX	Cytology of Smears	As above	<i>>8 sites, up to 20 slides</i>	1-4	See sample guide		
CYTS	Cytology of Cystic Fluids	Cytological examination of cyst contents, subcutaneous swellings, salivary mucocoele, abscess		1-4	See sample guide		
CYTF	Cytology of Body Cavity Fluids	Cytological examination, total nucleated cell count, total protein, albumin		1-4	See sample guide		
CYTR	Respiratory Cytology	Cytological examination of nasal flushes, bronchial lavages or tracheal washes	<i>If you also require culture please use test code CYR+</i>	1-4	See sample guide		
CYR+	Respiratory Cytology Plus Microbiology	Cytology as above. Aerobic and anaerobic bacterial culture, yeast/fungal culture, antimicrobial susceptibilities as appropriate		1-4	Cytology See sample guide Plain fluid in sterile container		
CYTJ	Cytology of Joint Fluid	Cytological examination, total nucleated cell count, total protein, albumin, viscosity, mucin clot test	<i>Single joint</i> <i>See page 32</i>	1-4	See sample guide		
CYPA	Cytology of Polyarthropathy	Cytological examination, total nucleated cell count, total protein, albumin, viscosity, mucin clot test	<i>Up to three joints</i> <i>See page 32</i>	1-4	See sample guide		
CYTC	Cytology of CSF	Cytological examination, total nucleated cell count, total protein		1-2	See sample guide		
CYTB	Bone Marrow Cytology and Haemogram	Cytological examination + Haemogram	<i>Please contact the laboratory for advice on sampling and smear preparation</i> <i>Up to 4 slides per animal</i> <i>A charge will be applied for any additional smears</i>	1-4	Carefully prepared air dried smears of bone marrow + E + Blood smear Additional slide		F

Important notice regarding submitting cytology specimens with tissue biopsies

- Tissues fixed in formalin should be placed inside a well-sealed plastic histology container. The histology container must be enclosed in sealed plastic bag with enough absorbent material to absorb the formalin in the event of a leak. This should be placed in an additional outer bag or container. Cytology slides should never be packaged in the same bag as tissue fixed in formalin. The slides should be put in slide mailers in a separate bag to avoid contamination from formalin fumes as the fumes from the formalin cause cellular changes which can affect the reading of the cytology.

See sample guide on pages 70 & 71

F Denotes a fixed price test which is non-discountable

NationWide Laboratories is pleased to offer several follow-up tests following routine cytological or histological examination (CYTO/HIST). These tests are dependent on the submission of appropriate tissue, relevant clinical information and the result of the initial routine examination and should ideally be conducted following discussion with the case pathologist.

We can offer PCR for Antigen Receptor Re-arrangement (PARR) testing for lymphoma on suitable histology and cytology specimens. In addition to our extensive immunohistochemistry range we may also be able to offer immunocytochemistry on suitable cytology preparations.

We are also pleased to offer panfungal PCR on biopsy specimens where fungal infection is strongly suspected in fixed tissue samples and fluorescent in situ hybridisation (FISH) where bacterial infection is strongly suspected in fixed tissue samples.

Please contact the laboratory to obtain prices and test codes.

Cyto/Histology

Cytology

Code	Name	Includes	Comment	Wkg Days	Sample	Exc. VAT	F
CYTU	Urine Cytology	Cytological examination of urine or prostatic washes	<i>For sediment exam, use US (Urine sediment). If suspect BPH consider +CPS</i>	1-2	See sample guide		
BRAF	BRAF Mutation		<i>Confirmation of canine transitional cell carcinoma (TCC). This mutation is found in the majority (but not all) cases of canine TCC</i>	10-14	Air dried or pre-stained smears, urine, sediment, fixed tissue		F
+CPS	Canine Prostate Specific Esterase		<i>Screen for benign prostatic hyperplasia. Add to cytology</i>	7	SS/SG		
CVS	Canine Vaginal Smear		<i>Staging the oestrus cycle. Repeat sampling at 48 hour intervals may be required for oestrus detection</i>	SD-1	Air dried smear		
+CS	Culture and Sensitivity		<i>Add to cytology, culture and sensitivity testing appropriate to the site sampled</i>	2-4	Swab or fluid in a sterile plain tube		
EXCY	Exotic Species Cytology of Smears	Cytological examination of fine needle aspirates or impression smears	<i>Up to 4 slides per animal</i>	1-2	See sample guide Each additional slide		F F
PARR	PARR (Clonality Testing)		<i>Confirmation of canine and feline lymphoma</i>	Up to 10	Smears, formalin fixed tissue, paraffin sections/blocks, EDTA whole blood		F
ICCLI	Immunocytochemistry		<i>Immunostains to differentiate B- and T-cell lymphomas, epithelial, mesenchymal, histiocytic and melanocytic tumours</i>	Up to 16	Smears		F
HISCYT	Histology/Cytology same site	Samples <4cm Up to 4 tissues and 4 Cytology smears from the same site	<i>See below For large samples use HISG</i>	2-5	Formalin fixed tissue + Cytology smears		

Fluids/Washes

- A plain tube is required for measurement of total protein in fluid samples. Do NOT use tubes containing a clot activation ring (doughnut)
- Fresh air dried or sediment smears should be submitted where possible, cells in fluid begin to degenerate quickly, please make smears immediately following collection
- A guide for making air dried smears can be found on page 21
- Plain or heparin samples of synovial fluid are required for the mucin clot test

Solid Masses

- Direct smears for cytological examination should be air dried - do not fix or coverslip
- Please contact the laboratory if you require any further information

Air Dried Smears

- Air dried smears must be carefully protected from exposure to formalin fumes, consider submitting them in a separate package if there is a related formalin-fixed submission

CYTJ and CYPA

The extent of synovial fluid analysis will depend on the volume/quality of the sample submitted

PARR

PARR is a molecular test for clonality designed to support a diagnosis of lymphoma when cytology is inconclusive. PARR is normally proposed by a pathologist to help differentiate lymphoproliferative disorders from reactive changes. Please contact the the lab to discuss for each case.

Sample Guide for Cytology

All slides must be clearly labelled according to the site aspirated

See sample guide on pages 70 & 71

F Denotes a fixed price test which is non-discountable

Cyto/Histology

Histology

Code	Name	Includes	Comment	Wkg Days	Sample	Exc. VAT	F
HIST	Histological Examination	Samples <4cm Up to 4 tissues or anatomic sites Routine special stains as required	<i>See below</i> <i>For large samples use HISG</i>	2-5	Formalin fixed tissue		
			<i>Each additional tissue</i>				
HISG	Large Sample Histological Examination	Mammary strip, whole organs (liver, spleen, kidney), limbs, bone tumours and all samples requiring decalcification or additional margin assessment	<i>Please call the lab prior to submission if unclear</i> <i>Tissues requiring decalcification</i>	2-5 Up to 14	Formalin fixed tissue		
HISR	Rapid Histology	Urgent or Fast Track cases	<i>Contact laboratory prior to submission. A report will be sent within 2 working days of receipt, this excludes tissue which requires fixing or decalcification</i> <i>Sample must be ≤5mm³ and adequately fixed on arrival.</i> <i>This test is not available on Fridays</i> <i>Each additional tissue</i>	2	Formalin fixed tissue		
+HIS	Histology added to Cytology			2-5	Formalin fixed tissue		
HISM	Exotic Species Histology	Specialist interpretation provided by International Zoo Vet Group	Up to three tissues from one animal <i>Each additional tissue</i>	2-5	Formalin fixed tissue		F
							F
KITM	Mutated c-kit Tyrosine Kinase Receptor		<i>For detecting mutated c-kit Tyrosine Kinase Receptor in histologically confirmed grade II or III mast cell tumors, where targeted therapy using Tyrosine Kinase Inhibitors is indicated</i> <i>The test is performed on the fixed, embedded tissue used for histological diagnosis only after histological confirmation of the diagnosis and grade, and following discussion with the case pathologist</i>	14-21	Formalin fixed tissue		F
VAS	Vasectomy check		<i>Any species</i>	2-5	Left and right vas deferens fixed in 10% formalin saline, in separate identified pots		

F Denotes a fixed price test which is non-discountable

Sample Guide for Histology

- Canine Parvovirus (CPV) – Duodenum, jejunum, ileum, mesenteric lymph node, thymus and heart
- Ethylene Glycol (Antifreeze) Poisoning – Kidney
- Feline Infectious Peritonitis (FeCoV) – Liver, spleen, and mesenteric lymph node
- Canine Adenovirus (CAV-1) – Liver (brain for foxes)
- Feline Panleucopaenia (FPV) – Duodenum, jejunum, ileum, mesenteric lymph node
- Canine Distemper (CDV) – Stomach, urinary bladder, brain, cerebellum, medulla, trachea, lung
- Canine Herpesvirus (puppies and neonates) – Kidney, liver, lung
- Rabbit/Viral Haemorrhagic Disease – Liver

Histology samples memo

- Specimens should be no more than 10mm thick. Fix in 10% neutral buffered formalin (NBF) which is available on request. Interpretation will be aided by a relevant clinical history, description of the lesion and site.
- Please use the histology pots provided and make sure that the pot is properly labelled.
- Please do not use narrow necked containers.

Large or very small specimens

- All biopsies should be fixed in 10% NBF. Maximum tissue thickness to allow optimal penetration of NBF is 10mm³.
- Some samples are too large, e.g. mammary strips, spleens, limbs. You can either take multiple representative samples of up to 10mm³ from different areas of the lesion. We will examine up to 4 specimens for the same price.
- Or alternatively, if you want to send the whole sample please fix it prior to sending in a large container containing 10% NBF at the practice for 48 hours prior to submission.
- You will need to make some incisions into the sample approx. 10mm apart to allow it to fix.
- After 48 hours fixation, take out the specimen and then wrap in wet paper towels, place in a sealable plastic bag or container with a sealable lid. Double bag with cotton wool between the bags to absorb any fluid that might leak out. Please make sure the sample will not leak.
- You can request foam cassettes or "TBags" for tiny samples, e.g., endoscopies

Immunohistochemistry

Code	Name	Wkg Days	Exc. VAT	F
Phenotype Panels				
IHLA	Round Cell Tumour (excluding melanoma) 5 Abs	Up to 14		F
IHLB	Canine Histiocytic Sarcoma vs Sarcoma 3 Abs	Up to 14		F
IHLBF	Feline Histiocytic Sarcoma vs Sarcoma 2 Abs	Up to 14		F
IHLC	GIST vs Leio vs non-GIST/non-leio 6 Abs	Up to 14		F
IHLD	Lymphoma Phenotype (Full) 4 Abs	Up to 14		F
IHLE	Canine Melanoma vs Sarcoma/Carcinoma 5 Abs	Up to 14		F
IHLEF	Feline Melanoma vs Sarcoma/Carcinoma 4 Abs	Up to 14		F
IHLF	Canine Haemangiosarcoma vs Sarcoma 3 Abs	Up to 14		F
IHLFF	Feline Haemangiosarcoma vs Sarcoma 2 Abs	Up to 14		F
Prognostic/Predictive Markers				
IHP1	Canine Oral/cutaneous Melanoma Ki67	Up to 14		F
IHP2F	Mammary Carcinoma Ki67 (Feline only)	Up to 14		F
IHP4	Canine Dermal/Subcutaneous Mast Cell Tumor Ki67 and cKIT	Up to 14		F
IHP5	Single Prognostic Marker	Up to 14		F
Infectious Agents				
IHI1	Feline Coronavirus	Up to 14		F
IHI2	Feline Calicivirus	Up to 14		F
IHI3	Feline Herpesvirus	Up to 14		F
IHI4	Feline Leukaemia Virus	Up to 14		F
IHI5	Feline/Canine Parvovirus	Up to 14		F
IHI6	Canine Distemper	Up to 14		F
IHI7	Canine Adenovirus	Up to 14		F
IHI8	Toxoplasma Gondii	Up to 14		F
IHI9	Neospora Caninum	Up to 14		F
IHI11	Helicobacter spp	Up to 14		F
IHI12	Entamoeba Histolytica	Up to 14		F
Additional Antibodies				
IHA1	Additional Antibodies - Single	Up to 14		F
IHA2	Additional Antibodies - Choice of 2	Up to 14		F
IHA3	Additional Antibodies - Choice of 3	Up to 14		F
IHA4	Additional Antibodies - Choice of 4	Up to 14		F
IHA5	Additional Antibodies - Choice of 5	Up to 14		F
IHA6	Additional Antibodies - Choice of 6	Up to 14		F

Important notice

- These panels are general guidelines. For a case specific quote please contact the laboratory as your histology results determine the antibodies required
- Prices are based on submission of a single representative block
- Additional antibodies are available following discussion with a histopathologist
- Urgent immunohistochemistry available at extra cost, POA

F Denotes a fixed price test which is non-discountable

Infectious Diseases

Infectious Disease

Code	Name	Includes	Comment	Wkg Days	Sample	Exc. VAT	F
Canine							
LWP	Angiostrongylus Vasorum PCR			10-12	E, BAL, Faeces		F
LWA	Angiostrongylus Vasorum Antigen			SD-1	SS/SG		F
ASPE	Aspergillus Antibody			7-10	SS/SG		
BABP	Babesia qPCR			7	E		F
BARP	Bartonella PCR			7	E		F
BBPCR	Bordetella Bronchiseptica PCR			2-5	Swab		F
BCAN	Brucella Canis Antibodies	BSAT and BiELISA	<i>Due to the zoonotic risk associated with this infectious agent, samples requiring serological testing for Brucella canis should be sent directly to the APHA laboratory. Further information regarding testing can be found here: http://apha.defra.gov.uk/apha-scientific/services/lab/index.htm</i>		SS/SG		F
SCAM	Campylobacter qPCR with Speciation	C.jejuni, C.coli, C.upsaliensis		5	Existing sample or faeces		F
CAAB	Canine Adenovirus Antibody			2-7	SS/SG		F
CAAG	Canine Adenovirus VI	CAV 1 and 2		2-7	Pharyngeal swab (VTM)		F
CDIP	Canine Diarrhoea Panel PCR	CPV, CDV, Enteric Coronavirus, Salmonella, Giardia, Cryptosporidia, C.jejuni, Clostridium perfringens enterotoxin	<i>Consider adding WEC (see page 44)</i>	10-14	Faeces		F
CDSN	Canine Distemper Antibody			7-10	SS/SG		F
CDP	Canine Distemper Virus PCR			2-5	E, CSF, swab, urine, faeces		F
HAEMMP	Canine Haemotropic Mycoplasma PCR			2-5	E		F
CHVP	Canine Herpesvirus PCR			2-5	E, swab, aborted material		F
HVAB	Canine Herpesvirus Antibody			7-10	SS/SG		F
CHVI	Canine Herpesvirus VI			3+	Swab (VTM)		F
CPHI	Canine Parvovirus Antibody			3-6	SS/SG		F
CPVP	Canine Parvovirus qPCR			3-8	Faeces, swab (VTM)		F
CRESP	Canine Respiratory Profile PCR	Adenovirus, Parainfluenza virus, Herpesvirus, Distemper virus, Bordetella bronchiseptica, Mycoplasma spp.		2-5	Swab		F
CRVI	Canine Respiratory Virus VI	Adenovirus, Herpesvirus, Parainfluenza virus		7-10	Pharyngeal swab (VTM)		F

F Denotes a fixed price test which is non-discountable

See sample guide on pages 70 & 71

F Denotes a fixed price test which is non-discountable

Infectious Disease

Code	Name	Includes	Comment	Wkg Days	Sample	Exc. VAT	F
Canine continued							
DERMPCR	Dermatophytes PCR	Dermatophytes Species differentiation if positive		2-5	Hair pluck, skin scrapes, coat brushings		F
EHRP	Ehrlichia/Anaplasma qPCR			7	Bone marrow, lymph node aspirate, conjunctival swab or E		F
HELI	Helicobacter PCR			2-5	Tissue, vomitus		F
LEIP	Leishmania qPCR		<i>Diagnosis, therapeutic monitoring and detecting recrudescence of disease</i>	7	Bone Marrow, lymph node aspirate, conjunctival swab or E		F
BDIP	Basic Diarrhoea panel PCR	Salmonella spp., Giardia spp., Cryptosporidium spp., Campylobacter jejuni, Clostridium perfringens enterotoxin A gene		2-5	Faeces		
SNAP VS	Snap VS	Immunoassay detection of D. immitis Ag, E.canis Ab, B.burgdorferi Ab, and A.phagocytophilum/platys Ab.		1-2	SS/SG		
LPI	Leptospira Antibody Screen		<i>Detects antibodies against a wide range of Leptospires</i>	3-7	SS/SG		F
LPCR	Leptospira PCR			3-5	Urine		F
LEPS	Leptospirosis Serology	Screen of pools 1-6 Individual serovars if positive pool	<i>Additional charge for each positive pool</i>	7-8	SS/SG		F
BORP	Lyme Disease/Borrelia PCR		<i>Canine and equine</i>	7	E, synovial fluid in E or tick		F
DIRP	Microfilaria spp PCR			2-5	E		F
NEOS	Neospora Caninum Antibody			4	SS/SG		F
NEOP	Neospora Caninum PCR			2-5	Swab, CSF, tissue		F
CSNT	Neospora PCR and Toxoplasma PCR			7-14	CSF in E only		F
RICK	Rickettsia qPCR			7-14	E		F
SM	Sarcoptic Mange Antibody			2-7	S SS/SG		
TSE	Tick Screen - Endemic qPCR	Borrelia, Ehrlichia/Anaplasma		7	E		F
TST	Vector Borne Diseases qPCR	Babesia, Ehrlichia, Leishmania		7	E		F
TOX2	Toxoplasma Antibody IF	IgG and IgM		2-3	SS/SG		F
TOXP	Toxoplasma Gondii PCR			2-5	Faeces, CSF, aborted material		F
DP	Vaccination Check 1	Distemper, Parvovirus		3-7	SS/SG		F
DAP1	Vaccination Check 2	Distemper, Adenovirus, Parvovirus		10-14	SS/SG		F

Please note

- Dry swabs for PCR can be moistened with sterile saline

See sample guide on pages 70 & 71

- S** Denotes a specialist test which is only performed at our Cambridge laboratory
- F** Denotes a fixed price test which is non-discountable

Infectious Diseases

Infectious Disease

Code	Name	Includes	Comment	Wkg Days	Sample	Exc. VAT	F
Small Mammals							
BBPCR	Bordetella Bronchiseptica PCR			2-5	Swab		F
DERMPCR	Dermatophytes PCR	Dermatophytes Species differentiation if positive		2-5	Hair pluck, skin scrapes, coat brushings		F
ECU2	E. Cuniculi	IgG and IgM		3-7	SS/SG		F
ECUNPCR	Encephalitozoon Cuniculi PCR			2-5	Urine, CSF		F
MPPCR	Mycoplasma Pulmonis PCR			2-5	Swab, tissue		F
MYXOP	Myxoma Virus PCR			2-5	Swab, tissue		F
VHD	Rabbit Haemorrhagic Disease PCR	RHDV 1 and 2		7-10	Faeces, E, plain, oral/rectal swab or intestinal contents		F
RABRP	Rabbit Respiratory Panel PCR	Bordetella bronchiseptica, Chlamydia, toxigenic Pasteurella multocida		2-5	Swab		F
TREP	Treponema Cuniculi Antibody			7-10	SS/SG		F
TRPP	Treponema Paraluiscuniculi PCR			2	Scab, swab, tissue		F
Feline							
A1AG	Alpha 1 Acid Glycoprotein			2-5	SS/SG		F
BARP	Bartonella PCR			7	E		F
BBPCR	Bordetella Bronchiseptica PCR			2-5	Swab		F
SCAM	Campylobacter qPCR with Speciation	C.jejuni, C.coli, C.upsaliensis		5	Existing sample or faeces		F
CHLF	Chlamydia Felis PCR			3-7	Conjunctival swab (dry or VTM)		F
DERMPCR	Dermatophytes PCR	Dermatophytes Species differentiation if positive		2-5	Hair pluck, skin scrapes, coat brushings		F
FCVS	Feline Calicivirus PCR			3-7	Oropharyngeal swab (dry or VTM)		F
FCHH	Feline Chlamydia Felis, Feline Herpesvirus PCR			3-7	Conjunctival or oropharyngeal swab (dry or VTM)		F
FIP	Feline Coronavirus Antibody IF			2-5	SS/SG		F
FIP+	Feline Coronavirus Antibody IF, Proteins plus AGP	FeCoV antibody, Total protein, Albumin, Globulin, A:G ratio, α1 Acid glycoprotein		2-5	SS/SG		F
FIP2	Feline Coronavirus qPCR		Assist diagnosis of FIP	7-14	Thoracic or abdominal fluid only		F
FDIP	Feline Diarrhoea Panel PCR	FPV, Feline Coronavirus, Salmonella, Giardia, Cryptosporidia, Toxoplasma, Tritrichomonas foetus, C.jejuni, Clostridium perfringens enterotoxin	Consider adding WEC (see page 44)	10-14	Faeces		F
FRP	Feline Eye Panel PCR	Chlamydia felis, Calicivirus, Herpesvirus		7-10	Conjunctival or oropharyngeal (dry or VTM)		F
FRVP	Feline Flu Screen qPCR	Calicivirus, Herpesvirus		7-10	Conjunctival or oropharyngeal (dry or VTM)		F

F Denotes a fixed price test which is non-discountable

See sample guide on pages 70 & 71

Infectious Disease

Code	Name	Includes	Comment	Wkg Days	Sample	Exc. VAT	F
Feline continued							
FGV	Feline Gingivitis Screen	FELV, FIV ELISA, Calicivirus VI		7-10	SS/SG, HB or E + oropharyngeal swab (VTM)		F
FHVS	Feline Herpesvirus PCR			3-7	Conjunctival or oropharyngeal swab (dry or VTM)		F
FIA	Feline Infectious Anaemia	Microscopic examination		SD	Minimum 2 fresh blood smears		
FIAP	Feline Infectious Anaemia PCR	Mycoplasma haemofelis, M. haemominutum, M. turicensis	<i>Haemotrophic Mycoplasma spp.</i>	7-10	E		F
FPVA	Feline Panleucopaenia Virus Antibody			2-5	SS/SG		F
FPVP	Feline Panleucopaenia Virus qPCR			3-8	Faeces		F
FRP3	Feline Respiratory Panel PCR	Chlamydia felis, Calicivirus, Herpesvirus, Mycoplasma felis, Bordetella bronchiseptica		7-10	Conjunctival or oropharyngeal swab (dry). For Mycoplasma felis respiratory wash fluid is also suitable		F
FSS	Feline Sero Screen	FeLV, FIV ELISA, Coronavirus antibody, Toxoplasma IgG and IgM		2-5	SS/SG, HB + E		F
FRVS	Feline Respiratory Virus Screen VI	Calicivirus, Herpesvirus		7-10	Oropharyngeal swab (VTM)		F
FELV	FELV Antigen ELISA			SD-2	SS/SG, HB or E		F
FLVI	FELV Antigen IF			7	E or 2 fresh smears		F
FF	FELV, FIV ELISA			SD-2	SS/SG, HB or E		F
FF2	FELV, FIV IF			2-7	SS/SG, HB + E		F
FFF	FELV, FIV ELISA, Feline Coronavirus Antibody IF			2-5	SS/SG, HB + E		F
FFF2	FELV, FIV, Feline Coronavirus Antibody IF			2-7	SS/SG, HB + E		F
FLVP	FELV qPCR	FeLV DNA provirus		7-10	E		F
FIV	FIV Antibody ELISA			SD-2	SS/SG or E		F
FIVI	FIV Antibody IF			3	SS/SG		F
FIVP	FIV qPCR	FIV DNA provirus		7-10	E		F
HELI	Helicobacter PCR			2-5	Tissue, vomitus		F
MYQP	Mycoplasma Felis PCR		<i>Respiratory disease</i>	3-7	Conjunctival or oropharyngeal swab (dry) or respiratory wash fluid		F
POXP	Poxvirus PCR			5-7	Scabs, tissues or airway washes		F
TOX2	Toxoplasma Antibody IF	IgG, IgM		2-3	SS/SG		F
TOXP	Toxoplasma Gondii PCR			2-5	Faeces, CSF, aborted material		F
TRIP	Tritrichomonas Foetus PCR		<i>See below</i>	2-14	Faeces (5-10g)		F
FCH	Vaccination Check	Calicivirus, Herpesvirus		3-6	SS/SG		F

TRIP Multiple samples obtained over 24 hours, submitted fresh. If submission is delayed samples must be frozen. Must not contain cat litter

See sample guide on pages 70 & 71

F Denotes a fixed price test which is non-discountable

Infectious Diseases

Infectious Disease

Code	Name	Includes	Comment	Wkg Days	Sample	Exc. VAT	F
Avian							
ABV	Avian Bornavirus PCR			2-5	Swab		F
AVPP	Avian PCR Profile	Polyomavirus, PBFD, Herpesvirus, Chlamydia, Bornavirus		4-7	E, swab, primary feathers		F
CHLP	Chlamydia Psittaci PCR		<i>See below</i>	3-7	Conjunctival or faecal swab (dry), post mortem tissues		F
PBFD	Psittacine Beak and Feather Disease PCR			7-10	HB or primary feathers		F
AHVP	Psittacine Herpesvirus (Pacheco's Disease) PCR			2-5	E, Swab, primary feathers, faeces		F
POV	Psittacine Polyomavirus PCR			7-10	E or primary feathers		F
Reptile							
MAP	Mycoplasma Agassizi PCR			2-5 days	Swab, nasal flush		F
OPMV	Ophidian Paramyxovirus PCR			14	Oral or cloacal swab (plain), brain or lung tissue		F
Travel and Vector Borne Disease							
RBT	Rabies Vaccination Status	Antibody titre, Rabies certificate	<i>See below</i>	7-14	SS/SG		F
BABP	Babesia qPCR			7	E		F
BARP	Bartonella PCR			7	E		F
LYME	Lyme Disease/Borrelia Antibody	Borrelia burgdorferi		SD-1	SS/SG		F
BORP	Lyme Disease/Borrelia PCR		<i>Canine and equine</i>	7	E, synovial fluid in E or tick		F
EHRP	Ehrlichia/Anaplasma qPCR			7	E, Bone marrow or splenic aspirate		F
LEII	Leishmania Antibody		<i>Diagnosis, prior to discontinuation of therapy and long term monitoring</i>	7	SS/SG or E		F
LEIP	Leishmania qPCR		<i>Diagnosis, therapeutic monitoring and detecting recrudescence of disease</i>	7	Bone marrow, lymph node aspirate, conjunctival swab or E		F
DIRO	Dirofilaria Immitis (Heartworm)	Blood film exam for microfilariae, Knott test, circulating Dirofilaria antigen		SD-1	SS/SG + E		F
RICK	Rickettsia qPCR			7-14	E		F
TSE	Tick Screen qPCR - Endemic	Borrelia, Ehrlichia/Anaplasma		7	E		F
TST	Vector Borne Diseases qPCR	Babesia, Ehrlichia, Leishmania		7	E		F

CHLP Chlamydia Psittaci PCR

For screening submit pooled faeces from Days 1, 3, 10 and 12

See sample guide on pages 70 & 71

F Denotes a fixed price test which is non-discountable

RBT Rabies Vaccination Status

- Tested by a Defra approved laboratory
- A specific request form is required, please ensure it is completed correctly
- In the event of an error we will require a further sample to be submitted with new paperwork. This will incur a further charge

Export/import requirements must be clarified with Defra and all other relevant authorities

NationWide Quality Matters

NationWide Laboratories is very proud of its commitment to quality and in particular to laboratory quality.

Whenever you buy a product or service it is reassuring to know that you are getting what you are paying for and the supplier cares about the services they are delivering to you the client.

NationWide Laboratories Poulton prides itself in being a UKAS accredited laboratory.

UKAS accreditation is a statement of quality assurance.



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Is the laboratory you commission for your testing technically competent?

Do you commission a laboratory to fulfill your testing needs? If so, can you be sure that they supply you with accurate and reliable results? You will want to ensure that the organisation undertaking your testing has the people, facilities, technical expertise, management systems and track records to undertake the work professionally and competently.

The competence of a laboratory you appoint may be crucial to maintaining your reputation as a responsible organisation. It is therefore surprising that organisations are still tempted to use the service of laboratories whose competence has not been confirmed by an independent, authoritative third party.

The United Kingdom Accreditation Service (UKAS) is the sole accreditation body recognised by Government to assess, against internationally recognised standards, organisations that provide testing services. UKAS combines a depth of technical knowledge and expertise developed over many years with scientific and technical specialists operating across a range of testing activities.

What are your testing requirements?

There are over 1,500 UKAS accredited laboratories in the UK in a wide range of sectors such as: Chemicals, Explosives, Food, Forensics, Healthcare, Toys and Water.

UKAS laboratory accreditation uses criteria and procedures specifically to determine technical competence. Laboratory accreditation uses the internationally recognised standard ISO/IEC 17025 to assess factors relevant to a laboratory's ability to produce precise, accurate tests and data including:

- Technical competence of staff
- Validity and appropriateness of test methods
- Suitability and maintenance of test equipment
- Testing environment
- Sampling, handling and transportation of test items
- Quality assurance of test data

What are the risks of using a laboratory that is not accredited to ISO/IEC 17025?

- Inexperienced staff – competence is built on qualifications, knowledge and experience
- Insufficient resource leading to inadequate and incomplete work and possibility of incorrect test results being reported
- A lack of impartiality
- No comeback (no formal complaints procedure, no accountability to UKAS)
- Lack of due diligence/exposure to future claims
- Use of inappropriate sampling and analytical equipment

How do I know what scope an organisation is accredited for?

All organisations accredited to ISO/IEC 17025 for testing are listed on the UKAS website. An organisation is only accredited for the activities that are listed on their schedule.

UKAS has formally been appointed as the National Accreditation Body for the United Kingdom under the EU Regulation (No) 765/2008. The Department for Business, Innovation and Skills (BIS) works with UKAS to ensure that it operates in the public interest and meets the obligation imposed by the Regulation.

Why you should use a UKAS accredited testing laboratory?

There are a host of reasons why you should use a UKAS accredited testing laboratory. Here are some of the most important:

Minimise risk – While risk can never be removed altogether, employing the services of a UKAS accredited laboratory means choosing a technically competent laboratory, minimising the risk of producing or supplying a faulty product or service.

Reputation – Confidence in your product is enhanced if clients know it has been thoroughly evaluated by an independent, competent testing facility. Increasingly customers are relying on independent evidence, rather than simply accepting a supplier's word that the service is fit for purpose.

Reduce costs – Testing of products and materials can be expensive and time consuming, even when they are done correctly the first time. If not done correctly, then the cost and time involved in re-testing can be even higher if the service has failed to meet specifications or expectations.

Demonstrate credibility – A UKAS accredited laboratory is able to demonstrate a full audit trail for the test, can call upon best practice within its sector and will only use the services of trained and experienced evaluators.

Defend against litigation – The use of a UKAS accredited laboratory is a powerful demonstration that you have exercised all due diligence in the selection and appointment of a supplier. You can also be held liable for any failure of your product/service, particularly if it involves public safety or financial loss to a client.

Microbiology

Code	Name	Includes	Comment	Wkg Days	Sample	Exc. VAT	F
General Cultures - Wounds, Exudate, Tissue Biopsies, Bone, etc							
SENS	Added Antibiotic Sensitivities	Antibiotic sensitivities added to culture		2-4			
GCUL	General Culture and Sensitivity	Aerobic and anaerobic bacterial culture, yeast/fungal culture, antimicrobial susceptibilities as appropriate		2-4	Aspirate/fluid/tissue in sterile container or swab		
ACS	Additional Culture and Sensitivities	Culture & sensitivities appropriate to sample/site	<i>Same animal, same time</i>	2-4	Aspirate/fluid/tissue in sterile container or CTM swab		
MRSS	Meticillin Resistant Staphylococci	Screen only	<i>Antibiotic sensitivities are not included unless requested For Staphylococcus pseudintermedius/ Staphylococcus aureus</i>	2-4	CTM Swab		
FUNC	Fungal Culture	Fungal culture at 30°C and 37°C	<i>Where concern for organisms other than Aspergillus or Dermatophytes</i>	Up to 14	Aspirate/fluids/tissue in sterile container or CTM swab		
Respiratory							
RESP	Respiratory Culture	Aerobic and anaerobic bacterial culture, yeast/fungal culture, antimicrobial susceptibilities as appropriate	<i>Specific culture for Bordetella spp</i>	2-4	CTM Swab		
ASPC	Aspergillus Culture			2-7	CTM Swab (dry)		
STRA	Strangles Culture	Aerobic culture & sensitivities for Streptococcus equi ssp. equi	<i>Strep. equi (subsp. zooepidemicus) also reported</i>	2-4	Swab		
STR5	Strangles Culture	Aerobic culture & sensitivities for Streptococcus equi ssp. equi	<i>≥5 samples, price per sample</i>	2-4	Swab		
Skin/Hair							
DC	Dermatophyte Culture (Ringworm)			Up to 14	Hair pluck, nail		
DM	Dermatophyte/Parasite Microscopy			SD-2	Hair pluck and skin scrapes/scab		
DMC	Dermatophyte/Parasite Microscopy and Culture			Up to 14	Hair pluck and skin scrapes/scab		
SSB	Skin Screen Basic	Aerobic bacterial culture, yeast/fungal culture, antimicrobial susceptibilities as appropriate		2-4	CTM Swab, pustular material		
SSF	Skin Screen Full	Aerobic bacterial culture, yeast/fungal culture, antimicrobial susceptibilities as appropriate, microscopy of hairs, skin scrapes/scab/tape strips, dermatophyte culture		2-14	CTM Swab, hair pluck, skin scrapes/scab		
DCC	Dermatophilus Examination	Dermatophilus microscopy and culture	<i>Specific culture for Dermatophilus congolensis</i>	4-7	Fresh impression smear, scabs in sterile container		
TRIC	Trichogram			3-5	Plucked hair (min 100 hairs)		

Please note

See sample guide on pages 70 & 71

- Please do not submit skin scrapes in oil
- Swabs for microbiology culture should be submitted in charcoal transport media unless otherwise stated
- For microscopy please submit up to four slides from 1 animal
- Where infection with anaerobes is suspected submit swabs in transport media or fill sample tubes completely to exclude air

Microbiology

Code	Name	Includes	Comment	Wkg Days	Sample	Exc. VAT	F
Ear							
EAR	Ear Culture	Aerobic bacterial culture, yeast/fungal culture, antimicrobial susceptibilities as appropriate	<i>If sampling both ears use in conjunction with test code +EAR</i>	2-4	CTM Swab		
+EAR	Ear Culture Second Ear	As above	<i>Use with EAR</i>	2-4	CTM Swab		
EARC	Ear Culture and Microscopy	Aerobic bacterial culture, yeast/fungal culture, antimicrobial susceptibilities as appropriate, microscopy for bacteria, yeasts, neutrophils, squames	<i>If sampling both ears use in conjunction with test code +EAC</i>	2-4	CTM Swab, air dried smear		
+EAC	Ear Culture and Microscopy Second Ear	As above	<i>Use with EARC</i>	2-4	CTM Swab, air dried smear		
CYTA	Ear Microscopy	Microscopy for bacteria, yeasts, neutrophils, squames		SD-1	Air dried smear		
Eye							
EYE	Eye Culture	Aerobic bacterial culture, yeast/fungal culture, antimicrobial susceptibilities as appropriate Anaerobic culture (if history suggests)	<i>If sampling both eyes use in conjunction with test code +EYE</i>	2-4	CTM Swab		
+EYE	Eye Culture Second Eye	As above	<i>Use with EYE</i>	2-4	CTM Swab		
Blood and Joint Culture							
BC	Blood Culture	Aerobic and anaerobic bacterial culture following up to 10 days incubation, antimicrobial susceptibilities as appropriate	<i>Investigation of PUO</i>	Up to 14	Whole blood (5ml) in blood culture media		
JC	Joint Culture	Aerobic and anaerobic bacterial culture following 24 hours incubation, antimicrobial susceptibilities as appropriate		3-5	Synovial fluid (0.5ml) in joint culture media		
Reptile/Avian							
EXOT	Exotics Culture	Aerobic and anaerobic bacterial culture, fungal culture, antimicrobial susceptibilities as appropriate	<i>Cultures appropriate to species and clinical history</i>	2-5	CTM Swab or tissue sample		
Canine Pre-Breeding Screen							
CPB	Vaginal/Prepuce Screen	Aerobic bacterial screen	<i>Antibiotic sensitivities are not included unless requested</i>	1-3	CTM Swab		

Please note

- Swabs for microbiology culture should be submitted in charcoal transport media unless otherwise stated
- Microbiology cultures and reported sensitivities are tailored according to species, organism recovered and site sampled
- When susceptibilities cannot be provided (anaerobes, Campylobacter, topical antimicrobials) antibiotics will be suggested as appropriate
- State clearly on the submission form if you require specific antibiotics to be tested, we will include these where possible
- Please do not submit skin scrapes in oil
- If multiple sites/swabs submitted from same case please state whether these are to be pooled or tested separately
- If sensitivity is required add code SENS

See sample guide on pages 70 & 71

- F** Denotes a fixed price test which is non-discountable
- C** Denotes a test performed in part at our Cambridge laboratory

Microbiology

Faecal

Code	Name	Includes	Comment	Wkg Days	Sample	Exc. VAT	F
Package							
FFE	Faeces Examination	Salmonella, Campylobacter, Giardia, Worm egg count, Coccidia		2-5	Faeces		
+FAC	Faecal Culture	Aerobic & anaerobic culture antimicrobial susceptibilities as appropriate	<i>Add to FFE only</i>	2-5	Faeces		F
+CRY	Cryptosporidia	Microscopy	<i>Add to FFE if zoonotic concern</i>	Up to 6	Faeces		
FAE+	Faeces Culture	Culture for enteric bacterial pathogens antimicrobial susceptibilities as appropriate		2-5	Faeces or swab		
+BFT	Canine B12, Folate, TLI		<i>Add to faecal package</i>	2-5	C SS/SG fasted		
+BFF	Feline B12, Folate, TLI		<i>Add to faecal package</i>	2-5	C SS/SG fasted		
FAEZ	Faecal Zoonosis Package	Salmonella, Campylobacter, Yersinia, Shigella, E.coli 0157 (antimicrobial susceptibilities as appropriate), Giardia, Protozoa, Worm egg count, Coccidia, Cryptosporidia (where appropriate)	<i>Screening, suitable for many species Parasites as appropriate Cryptosporidia - reptiles</i>	2-5	Faeces		
FDIP	Feline Diarrhoea Panel PCR	FPV, Feline Coronavirus, Salmonella, Giardia, Cryptosporidia, Toxoplasma, Trichomonas foetus, C.jejuni, Clostridium perfringens enterotoxin	<i>Consider adding WEC (see page 44)</i>	10-14	Faeces		F
CDIP	Canine Diarrhoea Panel PCR	CPV, CDV, Enteric Coronavirus, Salmonella, Giardia, Cryptosporidia, C.jejuni, Clostridium perfringens enterotoxin	<i>Consider adding WEC (see below)</i>	10-14	Faeces		F
SCAM	Campylobacter Speciation qPCR	C.jejuni, C.coli, C.upsaliensis		5	Existing sample or faeces		F
FAER	Small Pet Faeces	Aerobic and anaerobic bacterial culture, Salmonella, Campylobacter, Giardia, Worm egg count, Coccidia, Cryptosporidia antimicrobial susceptibilities as appropriate		2-5	Faeces		
ARFP	Avian and Exotic Faeces	Aerobic culture, Salmonella, Campylobacter, Giardia, Worm egg count, Coccidia, Cryptosporidia antimicrobial susceptibilities as appropriate		2-5	Faeces		
CHLP	Chlamydia Psittaci PCR		<i>For screening submit pooled faeces from days 1, 3, 10 and 12</i>	3-7	Faeces, conjunctival or faecal swab (dry), post mortem tissues		F
BFCP	Primate Faecal Culture	Salmonella, Campylobacter, Yersinia, Shigella, (antimicrobial susceptibilities as appropriate)		3-5	Faeces or swab		
Culture							
SALM	Salmonella			2-5	Faeces or CTM swab		
CAMP	Campylobacter			2-3	Faeces or CTM swab		
YERS	Yersinia			2-5	Faeces or CTM swab		
ECOLI	E. Coli 0157			2-5	Faeces or CTM swab		



See sample guide on pages 70 & 71

- C** Denotes a test performed in part at our Cambridge laboratory
- F** Denotes a fixed price test which is non-discountable

Please note

- Ideally 10g of faeces is required
- Swabs for microbiology culture should be submitted in charcoal transport media unless otherwise stated
- Enteric pathogens may be shed intermittently, submit three pooled faecal samples obtained over several days as single sample

Microbiology

Faecal

Code	Name	Includes	Comment	Wkg Days	Sample	Exc. VAT	F
Miscellaneous							
OB	Occult Blood		<i>No meat or dietary supplements for at least three days (vitamins/iron may give false positives)</i>	SD-1	Faeces		F
CT	Clostridial Perfringens Toxins		<i>α toxin and enterotoxin</i>	4-7	Faeces		F
Parasite							
WEC	Worm Egg Count and Coccidia			SD-2	Faeces		
PS	Parasite Screen		<i>Test relevant to species/history</i>	1-3	Faeces		
BAER	Lung Worm Larvae			1-3	Faeces		
MICR	Microscopy		<i>Test relevant to history given on form</i>	SD-2	Faeces		
GIAR	Giardia ELISA		<i>Single sample</i>	3-7	Faeces		
GIA3	Giardia ELISA		<i>≥ 3 samples, price per sample</i>	3-7	Faeces		
TRIP	Tritrichomonas Foetus PCR		<i>See below</i>	2-14	Faeces (5-10g)		F
CRY	Cryptosporidia			Up to 6	Faeces		
DDX	Demodex Gatoi			1-3	Faeces		
FL	Fluke	Sedimentation microscopy > 2 samples, price per test	<i>Stores and adults NON-quantitative test</i>	2	Faeces (10g)		
WFL	Coccidia Worm Egg Count and Fluke	Fluke Sedimentation microscopy		SD-2	Faeces (10g)		

Please note

- Ideally 10g of faeces is required
- Swabs for microbiology culture should be submitted in charcoal transport media unless otherwise stated
- Enteric pathogens may be shed intermittently, submit three pooled faecal samples obtained over several days as single sample

TRIP Multiple samples obtained over 24 hours, submitted fresh. If submission is delayed samples must be frozen. Must not contain cat litter

See sample guide on pages 70 & 71

- C** Denotes a test performed in part at our Cambridge laboratory
- F** Denotes a fixed price test which is non-discountable

ONLINE CUSTOMER PORTAL

The NationWide Laboratories online customer portal is designed to streamline the sample submission, tracking and result reporting processes. It perfectly aligns with our sustainability commitment to delivering a greener pawprint by offering you this alternative to a paper-based system.

This platform is set to give you another additional way to interact with us, offering a faster and more convenient means of managing sample submissions, tracking their progress and obtaining results. It is a software interface that gives you complete visibility into your interactions with our laboratories.

To get your login details, please contact us at info@nwlabs.co.uk



Microbiology

Urine

Code	Name	Includes	Comment	Wkg Days	Sample	Exc. VAT	F
UA	Urinalysis	USG, pH, protein, haemoglobin, ketones, glucose, bilirubin, sediment microscopy		1-2	Plain urine		
+UA	Urinalysis		<i>Add to profile</i>	1-2	Plain urine		
US	Urine Sediment	Microscopy		1-2	Plain urine		
UACS	Urinalysis Urine Culture and Sensitivity	Urinalysis, aerobic bacterial culture, antimicrobial susceptibilities as appropriate		2-4	Plain urine and urine in boric acid		
UACS+	Urinalysis Urine Culture and Sensitivity plus UPCR	Urine sediment microscopy, dipstick, specific gravity, culture and sensitivity, Urine Protein and Creatinine ratio		2-4	Plain urine and urine in boric acid		
UCS	Urine Culture and Sensitivity	Aerobic bacterial culture, antimicrobial susceptibilities as appropriate		2-4	Urine in boric acid		
UCA	Calculus Analysis			5-7	Dry calculus		F
UPEP	Urine Protein Electrophoresis		<i>If proteinuria on urine dipstick</i>	5-8	Plain urine		
UPCR	Urine Protein Creatinine Ratio			SD	Plain urine		
+UPC	Urine Protein Creatinine Ratio		<i>Add to profile</i>	SD	Plain urine		
SG	Urine Specific Gravity		<i>Up to 3 samples</i>	SD-1	Plain urine		
CYTU	Urine Cytology	Cytological examination of urine or prostatic washes	<i>For sediment exam, use US. If suspect benign prostatic hyperplasia consider +CPS see page 14</i>	SD-1	See sample guide on pages 70 & 71		
CCR	Urine Cortisol Creatinine Ratio		<i>Canine, Feline and Equine. Screen for hyperadrenocorticism. Not suitable for confirmation</i>	2	Plain urine, morning sample collected at home	C	



See sample guide on pages 70 & 71

F Denotes a fixed price test which is non-discountable

C Denotes a test performed in part at our Cambridge laboratory

Boric Acid Samples

- Fill the tube to the line. Too high a concentration of boric acid may have a bactericidal effect on some Gram-ve organisms
- For samples obtained by aseptic cystocentesis, preservative may not be required

Plain Urine Samples

- A minimum of 1ml is required for urinalysis
- Biochemical tests and microscopy may be affected by sample ageing
- Bacteria seen on sediment exam of plain urine samples may reflect contamination, irrespective of the method of collection, and should not, alone, be used as evidence for UTI

Microbiology

Environmental Screening

Code	Name	Includes	Comment	Wkg Days	Sample	Exc. VAT	F
LEG1	Legionella Screen	Detection of Legionella in water	<i>Result reported as presumptive</i>	10-15	1 litre of water (bottle and instruction on request)		F
POOL	Pool Water	TVC 37°C 1 day, coliforms, E. coli and Pseudomonas	<i>Hydrotherapy pool testing Samples can only be received Mon to Thurs</i>	2-5	1 litre of water (bottle and instruction on request)		F
POOL6	Pool Water	As above	<i>6 month agreement</i>	2-5	Includes 6 or 12 sample bottles, submission forms and prepaid labels to be supplied at the start of the contract		F
POOLH			<i>12 month agreement</i>				F
CLEAN	Practice Cleanliness	Screening 10 swab package	<i>Screening practice facilities Recommended every 3 months</i>	3-5	10 swabs		F
CLEAN1	Practice Cleanliness	Screening Individual swab	<i>Screening practice facilities Recommended every 3 months</i>	3-5	1 swab		F
CLEAN ANNUAL	Practice Cleanliness	Screening 12 month package 10 swabs every 3 months	<i>Screening practice facilities Recommended every 3 months</i>	3-5	10 swabs		F
CLEANR	Practice Cleanliness Repeat	Screening Individual swab	<i>Retest area after positive result</i>	3-5	1 swab		F

F Denotes a fixed price test which is non-discountable

See sample guide on pages 70 & 71

WHEN A 'CLEAN' REPORT IS ISSUED, WE WILL SEND THE PRACTICE A CERTIFICATE TO BE DISPLAYED TO SHOW THAT THE PRACTICE PROVIDES GOLD STANDARD LEVELS OF HYGIENE.

Do you know that...

Total Viable Count (TVC) is a test which estimates total numbers of viable individual micro-organisms present in a set volume of sample. The TVC may include bacteria, yeasts and mould species. TVC results are very useful for trend analysis whereby changes in the numbers of microbes present in a system can be monitored over time and multiple samples.

Sulphite reducing Clostridia. Clostridium spp. are gram-positive rod-shaped bacteria that form spores. These spores are extremely resistant structures that allow the organism to survive extreme environments. These are commonly found in soil and GI tract of humans and animals (NOTE: Spores can be difficult to eradicate and not all disinfectants will remove spores therefore this is an important test within this monitoring tool).

Yeasts and Moulds are both fungal species and may be disease causing agents/opportunists. Environmental swabbing will monitor adequate cleaning solutions and procedures are being used.

Enterobacteriaceae family is a group of bacteria that is used to assess general hygiene status. This group includes species that originate from the intestinal tract of animals and humans, as well as plants and the environment and should be readily removed from equipment and surfaces by appropriate cleaning procedures. Their presence in high numbers therefore signifies inadequate cleaning.

Pseudomonas spp. are very widespread in nature particularly in water. Certain species such as Pseudomonas aeruginosa are opportunistic pathogens generally infecting immuno-compromised patients. A significant number of species can produce exopolysaccharides that form slime layers and can lead to biofilm formation. Monitoring is essential to ensure adequate cleaning of surfaces and equipment.

MRSA lives harmlessly on the skin of around 1 in 30 people – usually in the nose, armpits, groin or buttocks. This is known as “colonisation” or “carrying” MRSA. MRSA can however, cause problems when it gets the opportunity to enter the body, with unwell people or animals being particularly susceptible. Good hygiene of staff, visitors, environment and equipment is essential to minimise transmission of MRSA.

Microbiology

Dermatological Investigation

Code	Name	Includes	Wkg Days	Sample	Exc. VAT F
Canine Skin Disease Packages					
DICA	Dermatological Investigation Canine Alopecia	Aerobic bacterial culture, yeast culture, antimicrobial susceptibilities as appropriate Microscopy of hairs, skin scrapes/scab/tape strips Dermatophyte culture Dermatohistopathology T4, TSH	SD 14	Swab Hair pluck, skin scrapes/scab Skin biopsies SS/SG	
DICP	Dermatological Investigation Canine Pruritus	Aerobic bacterial culture, yeast culture, antimicrobial susceptibilities as appropriate Microscopy of hairs, skin scrapes/scab/tape strips Dermatophyte culture Dermatohistopathology Sarcoptic mange antibody Allergy environmental screen	2-14	Swab Hair pluck, skin scrapes/scab Skin biopsies SS/SG SS/SG	
DICP+		Food allergy screen add to DICP	2-14	SS/SG	
Feline Skin Disease Packages					
DIFS	Dermatological Investigation Feline Skin	Aerobic bacterial culture, yeast culture, antimicrobial susceptibilities as appropriate Microscopy of hairs, skin scrapes/scab/tape strips Dermatophyte culture Trichogram Demodex gatoi Dermatohistopathology Allergy environmental screen	SD 14	Swab Hair pluck, skin scrapes/scab Plucked hair (minimum 100) Faeces (approx 5g) Skin biopsies SS/SG	
DIFS+		Food allergy screen add to DIFS	2-14	SS/SG	
Nail Skin Disease Packages					
DIND	Dermatological Investigation Claw Disease	Aerobic and anaerobic bacterial cultures, antimicrobial susceptibilities as appropriate Microscopy of hairs, skin scrapes/scab Dermatophyte culture Dermatohistopathology	2-14	Swab or aspirate/ fluid/tissue in sterile container Hair pluck, skin scrapes/scab Distal P3/ungual process from an affected nail	

See sample guide on pages 70 & 71



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*New customers signing up for NWL services are also available to take advantage of these offers.

Equine Profiles

Code	Name	Includes	Comment	Wkg Days	Sample	Exc. VAT F
Multi-Purpose Profiles						
ECPH	Equine Complete Profile	AP, AST, GGT, GLDH, Bilirubin, Total Protein, Albumin, Globulin, Urea, Creatinine, Calcium, Phosphorus, CK, Bile Acids, LDH, Fibrinogen, Serum Amyloid A, Protein Electrophoresis + Haemogram		1-3	SS/SG + E + Cit + Blood smear	
ESPH	Equine Standard Profile and Haemogram	AP, AST, GGT, GLDH, Bilirubin, Total Protein, Albumin, Globulin, Urea, Creatinine, Calcium, Phosphorus, CK, Bile Acids, LDH, Fibrinogen, Serum Amyloid A + Haemogram		SD-1	SS/SG + E + Cit + Blood smear	
ESP	Equine Standard Profile	AP, AST, GGT, GLDH, Bilirubin, Total Protein, Albumin, Globulin, Urea, Creatinine, Calcium, Phosphorus, CK, Bile Acids, LDH, Fibrinogen, Serum Amyloid A		1-3	SS/SG + Cit	
EGPH	Equine General Profile and Haemogram	AP, AST, GGT, GLDH, Bilirubin, Total Protein, Albumin, Globulin, Urea, Creatinine, Calcium, Phosphorus, CK, Bile Acids, LDH + Haemogram		SD	SS/SG + E + Blood smear	
EGP	Equine General Profile	AP, AST, GGT, GLDH, Bilirubin, Total Protein, Albumin, Globulin, Urea, Creatinine, Calcium, Phosphorus, CK, Bile Acids, LDH		SD	SS/SG	
ENI1	Equine Standard Profile and Haemogram No Veterinary Interpretation	AP, AST, GGT, GLDH, Bilirubin, Total Protein, Albumin, Globulin, Urea, Creatinine, Calcium, Phosphorus, CK, Bile Acids, LDH, Fibrinogen, Serum Amyloid A + Haemogram		1-3	SS/SG + E + Cit + Blood smear	
Clinical Focus Profiles						
ELP	Equine Liver Profile	AP, AST, GGT, Bilirubin, GLDH, LDH, Bile Acids, Total Protein, Albumin, Globulin, Fibrinogen, Serum Amyloid A		1-3	SS/SG + Cit	
EKP+	Equine Kidney Profile Plus	Urea, Creatinine, Phosphorus, Total Protein, Albumin, Globulin, Calcium, Sodium, Potassium, Chloride, Fractional Excretion of Electrolytes + Urinalysis		SD	SS/SG + Urine	
EKP	Equine Kidney Profile	Urea, Creatinine, Phosphorus, Total Protein, Albumin, Globulin, Calcium, Sodium, Potassium, Chloride		SD	SS/SG	
ELAP	Equine Laminitis Screen	Urea, Creatinine, Calcium, Phosphorus, Sodium, Potassium, Chloride, Total Protein, Albumin, Globulin, Glucose, Cortisol, Insulin + Urinalysis		1-7	C SS/SG + Plain urine	
LAMP	Laminitis Profile	EACTH, Insulin, Cortisol & Glucose		2-5	S SS/SG + OxF + EP	
EELP	Equine Electrolyte Profile	Sodium, Potassium, Chloride, Calcium, Magnesium, Phosphorus		SD	SS/SG	
Racing and Muscle Profiles						
EMPH	Equine Muscle Profile and Haemogram	AST, LDH, CK, Total Protein, Albumin, Globulin, Fibrinogen + Haemogram		SD-1	SS/SG + E + Cit + Blood smear	
EMP	Equine Muscle and Racing Profile	AST, LDH, CK		SD	SS/SG	
EFE	Equine Fractional Excretion of Electrolytes	Sodium, Potassium, Chloride, Phosphorus, Calcium, Magnesium		SD	SS/SG + Plain urine	
ERP	Exertional Rhabdomyolysis Profile	AST, CK, Sodium, Potassium, Chloride, Calcium, Magnesium, Phosphorus, Creatinine		SD	SS/SG	
ERP2	Exertional Rhabdomyolysis Profile 2	AST, CK, Creatinine, Sodium, Potassium, Chloride, Calcium, Phosphorus, Magnesium, Fractional Excretion of Electrolytes		SD	SS/SG + Urine	
Inflammation Profiles						
EINF	Equine Inflammation Profile	Total Protein, Albumin, Globulin, Fibrinogen, Serum Amyloid A + Haemogram		1-3	SS/SG + E + Cit + Blood smear	
EINP	Equine Inflammation Profile and Electrophoresis	Total Protein, Albumin, Globulin, Fibrinogen, Serum Amyloid A, Haemogram + Serum Protein Electrophoresis		1-3	SS/SG + E + Cit + Blood smear	

Glucose Testing

A separated serum/spun gel is the preferred sample type for Glucose measurement. Serum/spun gel separation should be performed within 30 minutes of taking the sample. Fluoride Oxalate tubes may also be used for Glucose measurement.

Please note

- Citrate sample required for fibrinogen

See sample guide on pages 70 & 71

- C** Denotes a test performed in part at our Cambridge laboratory
- S** Denotes a specialist test which is only performed at our Cambridge laboratory

Equine Profiles

Code	Name	Includes	Comment	Wkg Days	Sample	Exc. VAT	F
Age-Related Profiles							
ESF	Sick Foal Profile	Total Protein, Albumin, Globulin, IgG, Fibrinogen, Serum Amyloid A + Haemogram		1-3	SS/SG + E + Cit + Blood smear		
EWYP	Equine Growth Profile	Calcium, Phosphorus, Total Protein, Albumin, Globulin + Haemogram		SD	SS/SG + E + Blood smear		
EGEP	Equine Geriatric Profile	Urea, Creatinine, Calcium, Phosphorus, Sodium, Potassium, Chloride, Total Protein, Albumin, Globulin, Glucose, Cortisol, Insulin, Haemogram + Urinalysis		1-7	C SS/SG + E + OxF + Plain Urine		
Add to Profiles (+) and Individual Tests							
+EFE	Equine Fractional Excretion of Electrolytes	Serum and Urine: Creatinine, Sodium, Potassium, Chloride, Calcium, Phosphorus, Magnesium		SD	SS/SG + Plain urine		F
+FIB	Fibrinogen			1-3	Cit		
+SAA	Serum Amyloid A			1-3	SS/SG		
+EPE	Serum Protein Electrophoresis			SD-1	SS/SG		
LDHI	LDH Isoenzymes Electrophoresis			Up to 10	SS/SG		F
VITE	Vitamin E			7-14	SS/SG (Not Heparin)		F
VITD	Vitamin D			7-14	S SS/SG (1.5ml) - Serum taken after overnight fast. Centrifuge within 1 hour. Freeze sample. Do not expose to sunlight. Contact Cambridge lab for further information		F
GPX	Glutathione Peroxidase (Selenium)			2-4	HB		F
EIGG	Foal IgG Check			SD	SS/SG		
GTT	Glucose Absorption Test			SD	SS/SG x 6 + OxF x 6		
Group Sampling (Racing/Livery/Stud)							
HGB5	Equine Haemogram Multiple Samples	≥ 5 samples, price per sample		SD	E + Blood smear		
HGB2		≥ 20 samples, price per sample					
EIB5	Equine Inflammation Multiple Samples	≥ 5 samples, price per sample		SD	SS/SG + E + Blood smear + CIT		
EIB2		≥ 20 samples, price per sample					
ESB5	Equine Standard Profile Multiple Samples	≥ 5 samples, price per sample		SD-1	SS/SG + E + Blood smear + CIT		
ESB2		≥ 20 samples, price per sample					
EGB5	Equine General Profile Multiple Samples	≥ 5 samples, price per sample		SD	SS/SG + E + Blood smear		
EGB2		≥ 20 samples, price per sample					



See sample guide on pages 70 & 71

- F** Denotes a fixed price test which is non-discountable
- C** Denotes a test performed in part at our Cambridge laboratory
- S** Denotes a specialist test which is only performed at our Cambridge laboratory

Glucose Testing

A separated serum/spun gel is the preferred sample type for Glucose measurement. Serum/spun gel separation should be performed within 30 minutes of taking the sample. Fluoride Oxalate tubes may also be used for Glucose measurement

Equine Profiles

Code	Name	Includes	Comment	Wkg Days	Sample	Exc. VAT	F
EACIM	Equine Endogenous ACTH		<i>Equine Pituitary Pars Intermedia Dysfunction (Equine Cushing's Disease)</i> <i>Not suitable for canine samples</i>	SD	EP - No need to freeze, send on cold packs		
DSUE	Equine (Overnight) Dexamethasone Suppression Test		<i>Detection of pituitary pars intermedia dysfunction. See page 69 for protocol</i>	SD	SS/SG x 2		
TRHE	Equine TRH Stimulation Test		<i>For the detection of pituitary pars intermedia dysfunction. See page 69 for protocol</i>	SD	SS/SG x 3		
CDS	Equine Combined Dexamethasone Suppression and TRH Stimulation Test	Cortisol x 3: Basal, 3 hours, 3 hours 40 mins and 24 hours post dexamethasone	<i>Detection of pituitary pars intermedia dysfunction</i>	SD	SS/SG x 4		
DEX2	Equine (Overnight) Dexamethasone Suppression Test by RIA	Cortisol x 2 by RIA		SD	S SS/SG x 2		
OSR	Oestrone Sulphate Rig	Oestrone Sulphate	<i>NB: Not suitable for horses under 3 years or donkeys</i>	2-7	S SS/SG		
OSP	Oestrone Sulphate Pregnancy			2-7	S SS/SG		
PMSG	PMSG		<i>Equine pregnancy 40-80 days Not suitable for donkeys</i>	2-7	S SS/SG		
INH	Inhibin-B		<i>Equine granulosa cell tumours</i>	14-21	S SS/SG		F
GCTA	GCT Profile A	AMH & Progesterone		7-11	SS/SG or HP		
GCTB	GCT Profile B	AMH, Progesterone & Testosterone		2-7	SS/SG or HP		
GCTP	GCT Profile Plus	AMH, Progesterone, Testosterone & Inhibin-B		14-21	SS/SG or HP		F
CUBO	Equine Total Urinary Oestrogens		<i>Equine pregnancy 100 days-term</i>	2-4	Urine (25ml)		F
EAMH	Equine Anti-Mullerian Hormone		<i>Equine granulosa cell tumours, Cryptorchidism</i>	7-10	S SS/SG or HP		
AMHI	Equine Anti-Mullerian Hormone and Inhibin-B			7-10	S SS/SG		F

Glucose Testing

A separated serum/spun gel is the preferred sample type for Glucose measurement. Serum/spun gel separation should be performed within 30 minutes of taking the sample. Fluoride Oxalate tubes may also be used for Glucose measurement

See sample guide on pages 70 & 71

F Denotes a fixed price test which is non-discountable

S Denotes a specialist test which is only performed at our Cambridge



EQUINE IgG

Early and adequate consumption of colostrum is considered the single most important management factor in determining health and survival of the neonatal foal.

Our Equine IgG test allows us to assess the success of passive transfer.

Please contact us for more information at info@nwlabs.co.uk

Equine Profiles

Code	Name	Includes	Comment	Wkg Days	Sample	Exc. VAT	F
DERMPCR	Dermatophytes PCR	Dermatophytes Species differentiation if positive		2-5	Hair pluck, skin scrapes, coat brushings		F
EHVA	Equine Herpesvirus Antibody	Herpesvirus 1 and 4, Influenza A 1 and 2, Rhinitis virus		7-21	SS/SG		F
ERVS	Equine Respiratory Virus Antibody Screen	Herpesvirus 1 and 4, Influenza A 1 and 2, Rhinitis virus		7-21	SS/SG		F
ERVV	Equine Respiratory Virus Screen qPCR	Influenza A, Herpesvirus 1 and 4, Strep equi equi/zooepidemicus		7-21	Nasopharyngeal swab (VTM)		F
EIA	Equine Infectious Anaemia			1-2	SS/SG		F
EVA	Equine Viral Arteritis			3-6	SS/SG		F
+EVA	Equine Viral Arteritis add to CEM			3-6	SS/SG		F
+EIA	Equine Infectious Anaemia add to CEM			1-2	SS/SG		F
STRA	Strangles Culture	Aerobic culture & sensitivities for Streptococcus equi ssp. equi	<i>Strep. equi (subsp. zooepidemicus) also reported</i>	2-4	Swab		
STR5	Strangles Culture	Aerobic culture & sensitivities for Streptococcus equi ssp. equi	<i>≥5 samples, price per sample</i>	2-4	Swab		
STRS	Strangles Antibody			3-5	SS/SG		F
STPC	Strangles PCR			7-10	Special swab, contact NWL		F
RHOP	Rhodococcus Equi PCR			2-5	Swab		F
RESP	Respiratory Culture	Aerobic and anaerobic bacterial culture, yeast/fungal culture, antimicrobial susceptibilities as appropriate		2-4	CTM Swab		
GCUL	General Culture and Sensitivity	Aerobic and anaerobic bacterial culture, yeast/fungal culture, antimicrobial susceptibilities as appropriate		2-4	Aspirate/fluid/tissue in sterile container or swab		
ETWE	Equine Tapeworm ELISA			2-5	SS/SG		F
RWBT	Small Red Worm Blood Test		<i>Diagnosis of cyathostomin infection</i>	5-7	WB or SS/SG		F
BORP	Lyme Disease/Borrelia PCR			7	E, synovial fluid in E or tick		F
SALP	Salmonella spp PCR			2-5	Swab		F
CEP1	CEM PCR 1 Site PCR		<i>Clitoral or endometrial</i>	2-3	Swab		F
CEP2	CEM PCR 2 Sites PCR		<i>Clitoral and endometrial</i>	2-3	Swabs x 2		F
CEP3	CEM PCR 3 Sites PCR		<i>Urethra, urethral fossa, penile sheath</i>	2-3	Swabs x 3		F
CEP4	CEM PCR 4 Sites PCR		<i>Urethra, urethral fossa, penile sheath, pre-ejaculatory fluid</i>	2-3	Swabs x 4		F
KLEB	Klebsiella Capsular Typing PCR		<i>Mandatory when Klebsiella is isolated and a certificate required</i>	3-10			F
PIAPCR	Lawsonia Intracellularis PCR			7-10	Faeces or Intestinal contents		F

CEM Testing

- Samples for CEM should be submitted in Amies Charcoal Media. Swabs must be in date
- Each swab must be clearly labelled. Write the horse's name, site sampled, date and time of sample on the swab and sample request form
- For further guidance please refer to the HBLB codes of practice www.hblb.org.uk <http://codes.hblb.org.uk>

Glucose Testing

A separated serum/spun gel is the preferred sample type for Glucose measurement. Serum/spun gel separation should be performed within 30 minutes of taking the sample. Fluoride Oxalate tubes may also be used for Glucose measurement.

Equine Profiles

Equine

Code	Name	Includes	Comment	Wkg Days	Sample	Exc. VAT	F
SSFE	Equine Skin Screen Full	Aerobic bacterial culture, antimicrobial susceptibilities as appropriate, microscopy of hairs for dermatophytes, skin scrapes/scab for ectoparasites, dermatophyte culture, Dermatophilus microscopy and culture		2-14	CTM Swab, hair pluck, skin scrapes, scab, fresh impression smear		
DCC	Dermatophilus Examination	Dermatophilus microscopy and culture	<i>Specific culture for Dermatophilus congolensis</i>	4-7	Fresh impression smear, scabs in sterile container		
Faeces							
WEC	Worm Egg Count and Coccidia			SD-2	Faeces		
PS	Parasite Screen		<i>Test relevant to species/history</i>	1-3	Faeces		
BAER	Lung Worm Larvae			1-3	Faeces		
FL	Fluke	> 2 samples, price per test	<i>Stores and adults NON-quantitative test</i>	2	Faeces (10g)		
ESC1	Foal Enteritis	Aerobic culture, Rotavirus, Salmonella, Worm egg count, Cryptosporidia		2-5	Faeces		
ESC2	Adult Equine Enteritis	Salmonella, Worm egg count		2-5	Faeces		

See sample guide on pages 70 & 71

F Denotes a fixed price test which is non-discountable

Code	Test Name	AP	Bilirubin	Total Protein	Albumin	Globulin	Calcium	Phosphorus	Ca:P ratio	Urea	Creatinine	GLDH	LDH	GGT	AST	CK	IgG	Glucose	Bile Acids	Na, K, Cl	Magnesium	Haemogram	Urinalysis	UPCR	Fibrinogen	Serum Amyloid A	Additional Test	Exc. VAT	F
ECPH	Equine Complete Profile and Haemogram	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•		•			•	•		•	•	•			
ESPH	Equine Standard Profile and Haemogram	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•		•			•	•		•	•				
ESP	Equine Standard Profile	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•		•						•	•				
EGPH	Equine General Profile and Haemogram	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•		•			•	•		•	•				
EGP	Equine General Profile	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•		•						•	•				
ENI1	Equine Standard Profile No Veterinary Interpretation	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•		•				•	•	•	•				
ELP	Equine Liver Profile	•	•	•	•	•						•	•	•	•			•						•	•				
EKP+	Equine Kidney Profile Plus			•	•	•	•	•	•	•	•									•		•				•			
EKP	Equine Kidney Profile			•	•	•	•	•	•	•	•									•									
ELAP	Equine Laminitis Screen			•	•	•	•	•	•	•	•							•		•	•					•			
EELP	Equine Electrolyte Profile						•	•												•	•								
EMPH	Equine Muscle Profile and Haemogram			•	•	•							•		•	•					•	•		•	•				
EMP	Equine Muscle Profile												•		•	•													
ERP	Exertional Rhabdomyolysis Profile						•	•	•	•	•				•	•				•	•								
ERP2	Exertional Rhabdomyolysis Profile 2						•	•	•	•	•				•	•				•	•					•			
EINF	Equine Inflammation Profile			•	•	•																•			•	•			
EINP	Equine Inflammation and Electrophoresis Profile			•	•	•																•			•	•	•		
ESF	Sick Foal Profile			•	•	•											•					•			•	•			
EWYP	Equine Growth Profile			•	•	•	•	•	•													•			•	•			
EGEP	Equine Geriatric Profile			•	•	•	•	•	•	•	•							•	•	•	•					•			

Equine Allergy Testing

Code	Name	Includes	Wkg Days	Sample	Exc. VAT	F
Equine complete testing						
EALXE	Equine Allervet PAX Complete Environmental and Insect	Over 100 allergen extracts and components tested	2-5	SS		F
EALXEF	Equine Allervet PAX Complete Environmental Insect and Food	Over 200 allergen extracts and components tested	2-5	SS		F
EALXF	Equine Allervet PAX Complete Food	Over 100 allergen extracts and components tested	2-5	SS		F
Two step testing						
EALXSE	Allervet PAX Environmental Screen	Single Positive/Negative result for presence of environmental allergens	2-5	SS		F
EALXSEF	Allervet PAX Environmental and Food Screen	Single Positive/ Negative result for presence of environmental allergens plus Single Positive/Negative result for food allergens	2-5	SS		F
EALXSF	Allervet PAX Food Screen	Single Positive/ Negative result for the presence of food allergens	2-5	SS		F
EALXE2	Expand Allervet PAX Environmental Screen	Over 100 allergen extracts and components tested	2-5	SS		F
EALXSEF2	Expand Allervet PAX Environmental and Food Screen	Over 200 allergen extracts and components tested	2-5	SS		F
EALXSF2	Equine Expand Allervet PAX Food Screen	Over 100 allergen extracts and components tested	2-5	SS		F

THE PAX® - PET ALLERGY XPLORER TEST

Identifies allergens affecting animals and detects sensitisations by utilising state of the art molecular allergology. Molecular allergology helps pinpoint allergy triggers to facilitate therapy decisions and assess risk. It is the first quantitative macroarray IgE test designed specifically for animals. Single allergen components as well as whole allergen extracts are used for determination of specific IgE. The molecular components are recombinant proteins that provide a higher level of standardisation than allergen extracts and enable a more precise identification of IgE sensitisations

All samples for environmental testing are tested for the presence of cross-reactive carbohydrate determinants. If they are present CCD blockers are added to the environmental tests

MAIN ADVANTAGES OF PAX® PET ALLERGY XPLORER

- Increased sensitivity and specificity
- Automated technology, giving improved reproducibility
- CCD blocking and 2 blocking efficiency detectors.
- Over 200 allergen extracts and components included.
- Smaller sample volume. Only 0.5 ml of serum needed per test. Identification of "primary" sensitizing allergens
- Improved identification of allergen cross-reactivities, leading to better treatment selection.
- Selection of relevant allergens for specific immunotherapy

GRASS POLLENS		FOOD			MITES AND COCKROACHES		INSECT VENOMS
Bermuda grass	<i>Cynodon dactylon</i>	Apple	Lentil	Potato	Deer fly	<i>Chrysops vittalus</i>	Common wasp venom
Kentucky blue grass	<i>Poa pratensis</i>	Barley	Millet	Rice	Mosquito-Culicidae	<i>Aedes aegypti</i>	Fire Ant venom
Meadow fescue	<i>Festuca pratensis</i>	Buckwheat	Oat	Soy	Midge	<i>Culicoides nubeculosus</i>	Honeybee venom
Orchard grass, Cocksfoot	<i>Dactylis glomerata</i>	Carrot	Pea	Sunflower seed	Stable fly	<i>Stomoxys calcitrans</i>	Long-headed wasp venom
Perennial ryegrass	<i>Lolium perenne</i>	Corn	Peanut	Wheat	Horse fly	Tabanus spp.	Paper wasp venom
Ryegrass, cultivated	<i>Secale cereale</i>	Cultivated Rye			Storage mite	<i>Acarus siro</i>	
Timothy grass	<i>Phleum pratense</i>				American house dust mite	<i>Dermatophagoides farinae</i>	
TREE POLLENS		WEED POLLENS			European house dust mite	<i>Dermatophagoides pteronyssinus</i>	
Alder	<i>Alnus glutinosa</i>	Dock/Sorrel	<i>Rumex crispus/acetosella</i>		Storage mite	<i>Glycyphagus domesticus, Lepidoglyphus destructor, Tyrophagus putrescentiae</i>	
Ash	<i>Fraxinus excelsior</i>	English Plantain	<i>Poa pratensis</i>		German cockroach	<i>Blatella germanica</i>	
Beech	<i>Fagus sylvatica</i>	Lamb's quarter	<i>Chenopodium album</i>		American cockroach	<i>Periplaneta americana</i>	
Silver birch	<i>Betula verrucosa</i>	Mugwort	<i>Artemisia vulgaris</i>		MOULDS AND YEASTS		
Cypress	<i>Cupressus sempervirens</i>	Nettle	<i>Urtica dioica</i>		Alternaria alternata	<i>Alternaria alternata</i>	
Elm	<i>Ulmus campestris</i>	Pellitory	<i>Parietaria judaica</i>		Aspergillus fumigatus	<i>Aspergillus fumigatus</i>	
Hazel	<i>Corylus avellana</i>	Ragweed	<i>Ambrosia artemisiifolia</i>		Cladosporium herbarum	<i>Cladosporium herbarum</i>	
Olive	<i>Olea Europaea</i>	Russian thistle	<i>Salsola kali</i>		Malassezia		
Poplar/Cottonwood	<i>Populus nigra</i>	EPITHELIA					
Privet	<i>Ligustrum vulgare</i>	Cat	Cattle	Mouse			
Sycamore	<i>Platanus acerifolia</i>	Dog	Guinea pig	Rabbit			



Farm Animals

Back Yard Poultry and Hobby Farming

The growing popularity of back yard poultry, small holding or hobby farming means that practitioners may be faced with unfamiliar species and/or situations. We offer diagnostic support for a wide range of species and are happy to discuss sample suitability and handling requirements

We can help with the investigation of enteritis or ill thrift, pregnancy diagnosis and endoparasite monitoring (with responsible use of anthelmintics)

We have a comprehensive range of tests (in poultry and game birds). Our wealth of experience, flexibility and abiding enthusiasm allow us to tailor our service to suit your needs

In situations where there is close contact between farm animals and children, zoonotic disease is a major potential concern; our faecal zoonosis package (FAEZ) can be used for routine screening

Do any of your clients have a petting farm?

Are you sure they are meeting safety standards?

Contact us to discuss a surveillance package to give peace of mind

Code	Name	Includes	Comment	Wkg Days	Sample	Exc. VAT	F
SENS	Added Antibiotic Sensitivities	Antibiotic sensitivities	<i>Add to MILH</i>	2-4	Milk (30ml) in sterile container from each quarter		
FAEZ	Faecal Zoonosis Package	Salmonella, Campylobacter, Yersinia, Shigella, E.coli 0157, (antimicrobial susceptibilities as appropriate), Giardia, Protozoa, Worm egg count, Coccidia, Cryptosporidia (where appropriate)	<i>Screening, suitable for many species Parasites as appropriate Cryptosporidia for reptiles</i>	2-5	Faeces		
WEC	Worm Egg Count and Coccidia		<i>All species (NB sample must be from recovered piglets for coccidiosis)</i>	SD-2	Faeces		
MASTC	Mastitis Culture	48 hour culture results		1-2	Milk (30ml) in sterile container		
MASTCS	Mastitis Culture and Sensitivity	48 hour culture results, antimicrobial susceptibilities as appropriate		2-4	Milk (30ml) in sterile container		
JOHE	Johne's Antibody ELISA		<i>Bovine, ovine and caprine</i>	5-10	SS/SG		F
RH	Ruminant Health Profile	GGT, GLDH, Total Protein, Albumin, Globulin, A:G ratio, Urea, Creatinine, BHB, Calcium, Phosphorus, Magnesium		SD	SS/SG		
RH+	Ruminant Health Profile Plus	GGT, GLDH, Total Protein, Albumin, Globulin, A:G ratio, Urea, Creatinine, BHB, Calcium, Phosphorus, Magnesium + Haemogram		SD	SS/SG + E or HB		
OSP	Oestrone Sulphate		<i>Pregnancy 80 days-term bovine and caprine</i>	2-7	SS/SG		
CAE	Caprine Arthritis Antibody			5-10	SS/SG		F

Please Note

- Ideally 10g of faeces is required
- See our farm animal price list for a more extensive range of tests

See sample guide on pages 70 & 71

F Denotes a fixed price test which is non-discountable

Farm Animals

Ruminant Profiles

Code	Name	Includes	Comment	Wkg Days	Sample	Exc. VAT	F
RH	Ruminant Health Profile	GGT, GLDH, Total Protein, Albumin, Globulin, A:G ratio, Urea, Creatinine, BHB, Calcium, Phosphorus, Magnesium	<i>General screen for a sick animal</i>	SD	SS/SG		
RH+	Ruminant Health Profile and Haemogram	GGT, GLDH, Total Protein, Albumin, Globulin, A:G ratio, Urea, Creatinine, BHB, Calcium, Phosphorus, Magnesium + Haemogram		SD	SS/SG + E or HB		
RLIV	Ruminant Liver Profile	GGT, GLDH, AST, Total Protein, Albumin, Globulin, A:G ratio, Bile Acids, BHB		SD	SS/SG		F
CPM	Calcium, Phosphorus and Magnesium Profile			SD	SS/SG		F
RMini	Ruminant Mini Profile	BHB, Calcium, Phosphorus, Magnesium		SD	SS/SG		F
FRLIV	Fatty Liver Check	GLDH, AST, BHB, Glucose, NEFA		1-3	SS/SG		F
RLK	Ruminant Liver and Kidney Profile	GGT, GLDH, AST, Total Protein, Albumin, Globulin, A:G ratio, Urea, Creatinine, Bile Acid, BHB, Sodium, Potassium, Na:K ratio, Calcium, Phosphorus, NEFA		1-2	SS/SG		
DOWC	Downer Cow Profile	CK, AST, Urea, BHB, Calcium, Phosphorus, Magnesium		SD	SS/SG		F
MYO	Myopathy Profile	GSH-Px, Vitamin E, CK	≤ 5 samples, price per test > 5 samples, price per test	6-8	SS/SG + HB		F F F
RFM	Retained Foetal Membrane Profile	Urea, Calcium, Phosphorus, GSH-Px, Vitamin E, CK	<i>Sample 6 cows where there is a herd problem of retained foetal membranes. Price is per animal</i>	6-8	SS/SG + HB		F
TRACB	Bovine Trace Element	Copper, GSH-Px	≥ 4 samples, price per test	6-8	HB		F F
BITP	Bovine Ill Thrift Profile	Copper, GSH-Px, Total Protein, Albumin, Globulin, A:G ratio, Urea, GGT, GLDH	≥ 4 samples, price per test	6-8	SS/SG + HB		F F
FERT1	Bovine Fertility and Mineral Profile	Copper, GSH-Px, Albumin, Urea, BOHB, NEFA	<i>Herd screen for poor fertility or suspected mineral deficiencies</i>	6-8	SS/SG + HB		F
FERT6		As above for 6 animals					F
MMET1	Mini Metabolic Profile	Total Protein, Albumin, Globulin, A:G ratio, Urea, BHB, Calcium, Phosphorus, Magnesium	<i>Screen for possible metabolic disorders causing poor production</i>	SD	SS/SG		F
MMET6		As above for 6 animals					F

F Denotes a fixed price test which is non-discountable

See sample guide on pages 70 & 71

Code	Test Name	GGT	CK	GLDH	AST	Total Protein	Albumin	Globulin	A:G Ratio	Urea	Creatinine	Bile Acids	BHB	Glucose	Na	K	Na:K Ratio	Calcium	Phosphorus	Mg	NEFA	GSH-Px	Copper	VIT E	Exc. VAT	F
RH	Ruminant Health Profile	•		•		•	•	•	•	•	•		•					•	•	•						
RLIV	Ruminant Liver Profile	•		•	•	•	•	•	•			•	•													F
CPM	Calcium, Phosphorus and Magnesium Profile																	•	•	•						F
RMini	Ruminant Mini Profile												•					•	•	•						F
FRLIV	Fatty Liver Check			•	•								•	•							•					F
RLK	Ruminant Liver and Kidney Profile	•		•	•	•	•	•	•	•	•	•	•		•	•	•	•	•	•	•					
DOWC	Downer Cow		•		•					•			•					•	•	•						F
MYO	Myopathy Profile		•																			•		•		F
RFM	Retained Foetal Membrane Profile		•							•								•	•			•		•		F
TRACB	Bovine Trace Element																					•	•			F
BITP	Bovine Ill Thrift Profile	•		•		•	•	•	•	•												•	•			F
FERT	Bovine Fertility and Mineral Profile						•			•			•								•	•	•			F
MMET	Mini Metabolic Profile					•	•	•	•	•			•					•	•	•						F

Ruminant Additional Biochemistry

Code	Name	Includes	Comment	Wkg Days	Sample	Exc. VAT	F
CU	Copper Plasma	> 5 samples, price per test		2-3	HB or HP		F
CUT	Copper Tissue			6-8	Liver min 5g		F
GSH	Glutathione Peroxidase GSHPx	≥ 5 samples, price per test		6-8	HB		F
NEFA	Non-Esterified Fatty Acids	> 7 samples, price per test		1-3	SS/SG or HP		F
Pll	Iodine		<i>Single</i> <i>Up to 6 samples pooled</i>	12-15 12-15	HP or SS/SG HP or SS/SG		F
PBB	Lead			8-10	HB		F
ZINCF	Zinc Farm Animal			6-8	SS/SG (0.5ml plastic tube). No rubber components or gel		F
VITAF	Vitamin A			6-8	SS/SG or HP min 0.5ml		F

Ruminant Individual Tests

Includes	Wkg Days	Sample	Comment	Exc. VAT
GLDH, GGT, Total Protein, Albumin, Globulin, BHB, AST, CK, Urea, Creatinine, Calcium, Phosphorus, Magnesium, Sodium, Potassium	SD-2	SS/SG		Price per test
Glucose	SD-2	SS/SG + OxF	Price per test if ≥ 3 tests or test added to profile	

Ruminant Pregnancy and Milk Bacteriology

Code	Name	Includes	Comment	Wkg Days	Sample	Exc. VAT	F
BPAG	Bovine Pregnancy Glycoprotein		<i>33 Days post service to term</i> <i>(must be >100 Days post calving)</i>	14-21	SS/SG 0.5ml or EDTA		
OSP	Oestrone Sulphate		<i>Pregnancy 80 days-term bovine</i> <i>and caprine</i>	2-7	SS/SG		
MILH	Herd Mastitis Bacteriology	Culture of milk from 5-10 cow quarters		2-3	Milk (30ml) in sterile container from each quarter		
SENS	Added Antibiotic Sensitivities	Antibiotic sensitivities	<i>Add to MILH</i>	2-4	Milk (30ml) in sterile container from each quarter		
MASTC	Mastitis Culture	48 hour culture results		2-3	Milk (30ml) in sterile container		
MASTCS	Mastitis Culture and Sensitivity	48 hour culture results, antimicrobial susceptibilities as appropriate		2-4	Milk (30ml) in sterile container		

Ruminant Dermatology

Code	Name	Includes	Comment	Wkg Days	Sample	Exc. VAT	F
RSK1	Ruminant Skin Package 1	Microscopy, Dermatophyte culture	<i>Dermatophytosis, parasitic skin disease</i>	Up to 14	Plucked hairs, fleece or skin scrape		
RSK2	Ruminant Skin Package 2	Aerobic cultures, antibiotic sensitivities as appropriate, microscopy, dermatophyte culture, Dermatophilus culture	<i>Microbial or parasitic skin disease.</i> <i>Dermatophytosis, Dermatophilosis</i>	Up to 14	Plucked hairs, fleece or skin scrape and swab in transport media		

See sample guide on pages 70 & 71

Certain referral test prices may change throughout the year, NWL reserves the right to amend these to cover the costs of delivering the service

F Denotes a fixed price test which is non-discountable



Same day PTH

NationWide Specialist Laboratories is offering a SAME DAY service for the analysis of canine, feline and equine parathyroid hormone (PTH). Parathyroid hormone-related peptide (or PTHrP) is assayed once a week on Wednesday with results available on Thursday. If you want our RAPID PTH service as well as PTHrP, please submit 2 separate frozen EDTA Plasma samples. PTHrP will continue to be analysed once a week. For more details, please contact us at 01223 493400.

Erythropoetin

NationWide Specialist Laboratories is offering a service for the analysis of Erythropoetin (EPO) for canine and feline samples.

EPO plays a key role in the regulation of red cell mass and erythrocyte production. EPO may be used to aid the differential diagnosis of polycythemia and non-regenerative anaemia. Raised levels of EPO occur in secondary polycythemias and renal tumours. Low/normal levels may occur in renal failure and polycythemia vera.

Sample requirement is 0.5mL separated serum.

For any enquiries, please ring 01223 493400.



SDMA assay

This assay has been validated against Liquid Chromatography – Mass Spectrometry method which is the gold standard. This is an immunoturbidimetric assay and has been validated for dogs and cats. Li-hep plasma or serum are suitable samples for this assay. For more details, please contact us at 01253 899215.

Farm Animals

Bovine Serology

Code	Name	Includes	Comment	Wkg Days	Sample	Exc. VAT	F
RESPB	Bovine Respiratory Virus Serology	RSV, IBR, P13, BVD; antibodies	<i>From calves >4 months old</i>	10-12	SS/SG		F
RSV	RSV ELISA			5-10	SS/SG		F
PI3	PI3 ELISA			5-10	SS/SG		F
MBOVISAb	Mycoplasma Bovis Antibody			5-10	SS/SG		F
BVDAG	BVD Antigen ELISA		<i>> 4 weeks old</i>	5-10	SS/SG		F
BVDP	BVD PCR		<i>Pooled serum up to 10 samples</i>	5-10	SS/SG		F
BVDAb	BVD Antibody ELISA			5-10	SS/SG		F
JOHE	Johne's Antibody ELISA			5-10	SS/SG		F
FLUKEAb	Fluke Antibody ELISA			5-10	SS/SG		F
NEOB	Neospora Caninum Antibody ELISA			5-10	SS/SG		F
IBRAb	IBR Antibody ELISA			5-10	SS/SG		F
IBRG	IBRgE marker ELISA		<i>For animals vaccinated with gE deleted marker vaccine</i>	10-15	SS/SG		F
SCHS	Schmallenberg Antibody ELISA			5-10	SS/SG		F
LWEL	Lungworm Antibody ELISA			5-10	SS/SG		F
LEPHAb	L. Hardjo Antibody ELISA			5-10	SS/SG		F
REPROb	Bovine Reproductive Failure	IBR, BVD, L. hardjo, Neospora caninum; antibodies		5-10	SS/SG		F
BCOV	Bovine Coronavirus Antibody			7-10	SS/SG		F
Milk Serology							
MILKB	BVD Milk Antibody ELISA			5-10	Milk or Bulk milk		F
MILKI	IBR Milk Antibody ELISA			5-10	Milk or Bulk milk		F
MILKIG	IBRgE marker Milk Antibody ELISA			10-15	Milk or Bulk milk		F
MILKL	L. Hardjo Milk Antibody ELISA			5-10	Milk or Bulk milk		F
MILKJ	Johne's Milk Antibody ELISA			5-10	Milk or Bulk milk		F
MILKN	Neospora Milk Antibody ELISA			5-10	Milk or Bulk milk		F
MILKS	Schmallenberg Milk Antibody ELISA			5-10	Milk or Bulk milk		F
MILKF	Fluke Milk Antibody ELISA			5-10	Bulk milk		F
MILKO	Ostertagia Milk Antibody ELISA			5-10	Bulk milk		F
MILKBPCR (BVDAG)	BVD PCR Bulk Milk		<i>Pooled milk from up to 300 cows</i>	5-10	Bulk milk		F
BMP	Bulk Milk Package ELISA	BVD, IBR, L. hardjo, Johne's; antibodies		5-10	Bulk milk		F
Pre Purchase							
PREPURB	Pre Purchase Serology	IBR, BVD, L. hardjo; antibodies		5-10	SS/SG		F
PREPURB1	Pre Purchase Serology 1	IBR, BVD, L. hardjo; antibodies, BVD antigen		5-10	SS/SG		F
PREPURB2	Pre Purchase Serology 2	IBR, BVD, L. hardjo, Johne's; antibodies		5-10	SS/SG		F
PREPURB3	Pre Purchase Serology 3	IBR, BVD, L. hardjo, Johne's; antibodies, BVD antigen		5-10	SS/SG		F
PREPURB4	Pre Purchase Serology 4	IBR, BVD, L. hardjo, Neospora caninum, Johne's; antibodies, BVD antigen		5-10	SS/SG		F

See sample guide on pages 70 & 71

F Denotes a fixed price test which is non-discountable

Farm Animals

Bovine Enteritis

Code	Name	Includes	Comment	Wkg Days	Sample	Exc. VAT	F
RSCA	Bovine Neonatal Enteritis Package	Salmonella, E.coli K99, antibiotic sensitivities as appropriate, Rotavirus, Coronavirus, Cryptosporidia.	< 1 week	6-8	Faeces (5g)		F
RSCG	Bovine Growing Calves Enteritis Package	Salmonella, Coccidia, Worm egg count, Cryptosporidia	>3 weeks	SD-5	Faeces (5g)		
RSCC	Bovine Young Adult Enteritis Package	Salmonella, Coccidia, Worm egg count, Fluke ova	<2 years	2-5	Faeces (10g)		
RSCB	Bovine Adult Enteritis Package	Salmonella, Worm egg count, Fluke ova, Johne's Microscopy	>2 years	2-5	Faeces (10g)		
MICJ	Johne's Microscopy			2-3	Faeces (2g)		
JOHEP	Johne's PCR			7-10	Faeces (2g)		F
WEC	Worm Egg Count and Coccidia	> 2 samples, price per test	All ages	SD-2	Faeces (10g)		
WECB	Worm Egg Count and Coccidia Pooled		All ages. Up to 10 samples	SD-2	Pooled faeces (min 3g per animal)		
+COCB	Bovine Coccidial Oocyst Identification		Add to WEC	4-5			F
FL	Fluke	> 2 samples, price per test	Stores and adults NON-quantitative test	2	Faeces (10g)		
FLB	Fluke Pooled		Stores and adults. Up to 10 samples	2	Pooled faeces (min 3g per animal)		
FLE	Liver Fluke Coproantigen ELISA			6-8	Faeces (5g) fresh as possible		F
FLEP	Liver Fluke Coproantigen ELISA Pooled		Up to 10 samples	6-8	Pooled faeces (5g per animal) fresh as possible		F
WFL	Coccidia, Worm Egg Count and Fluke			SD-2	Faeces (10g)		
LWL	Lungworm	> 2 samples, price per test	Stores and adults.	2-4	Faeces (10g)		
CRY	Cryptosporidia			SD	Faeces (1g)		
SALMF	Selective Culture for Salmonella			2-3	Swab in TM or faeces		
IGGB	Bovine IgG		Adequacy of colostrum absorption	SD-1	SS/SG		

See sample guide on pages 70 & 71

F Denotes a fixed price test which is non-discountable

BOVINE IgG

Early and adequate consumption of colostrum is considered the single most important management factor in determining health and survival of the neonatal calf

Our Bovine IgG test allows us to assess the success of passive transfer

Please contact us for more information at info@nwlab.co.uk



Farm Animals

Ovine Profiles

Code	Name	Includes	Comment	Wkg Days	Sample	Exc. VAT	F
TRACO	Ovine Trace Element Profile	Copper, B12, GSHPx	> 5 samples, price per test	6-8	SS/SG + HB SS/SG + HB		F F
OITP	Ovine Ill Thrift Profile	Copper, B12, GSHPx, Total Protein, Albumin, Globulin, A:G ratio, Urea, GGT, GLDH	> 5 samples, price per test	6-8	SS/SG + HB SS/SG + HB		F F
EMETP	Ewe Metabolic Disease Profile	Calcium, Magnesium, BHB		SD	SS/SG		F
PLENP	Pre-Lambing Ewe Nutritional Profile	BHB, Albumin, Urea	> 5 samples, price per test	SD	SS/SG SS/SG		
RH	Ruminant Health Profile	GGT, GLDH, Total Protein, Albumin, Globulin, A:G ratio, Urea, Creatinine, BHB, Calcium, Phosphorus, Magnesium		SD	SS/SG		
RH+	Ruminant Health Profile Plus	GGT, GLDH, Total Protein, Albumin, Globulin, A:G ratio, Urea, Creatinine, BHB, Calcium, Phosphorus, Magnesium + Haemogram		SD	SS/SG + E or HB		
MYO	Myopathy Profile	GSHPx, Vitamin E, CK	≤ 5 samples, price per test > 5 samples, price per test	6-8	SS/SG + HB		F F F
OFC	Ovine Flock B12	B12 x 10	<i>Flock cobalt status</i>	1-3	SS/SG		F

Ovine Serology

Code	Name	Includes	Comment	Wkg Days	Sample	Exc. VAT	F
REPRO ₀	Ovine Reproductive Failure	Toxoplasma, EAE		5-10	SS/SG		F
REPRO ₀₊	Ovine Reproductive Failure Plus	Toxoplasma, EAE, SBV		5-10	SS/SG		F
JOHE	Johne's Antibody ELISA			5-10	SS/SG		F
FLUKEAb	Fluke Antibody ELISA			5-10	SS/SG		F
SCHS	Schmallenberg Antibody ELISA			5-10	SS/SG		F
TOXL	Toxoplasma ELISA			5-10	SS/SG		F
CLAS	Caseous Lymphadenitis Serology			5-10	SS/SG		F
MV	Maedi Visna Antibody			5-10	SS/SG		F
EAE	Enzootic Abortion of Ewes Antibody			5-10	SS/SG		F
OBDA _b	Border Disease Virus Antibody			5-10	SS/SG		F
OBDA _g	Border Disease Virus Antigen PCR			5-10	SS/SG		F

Certain referral test prices may change throughout the year, NWL reserves the right to amend these to cover the costs of delivering the service

See sample guide on pages 70 & 71

F Denotes a fixed price test which is non-discountable

Farm Animals

Ovine Enteritis

Code	Name	Includes	Comment	Wkg Days	Sample	Exc. VAT	F
OEPN	Ovine Neonatal Enteritis Package	Aerobic bacterial culture, Salmonella, E.coli K99; antibiotic sensitivities as appropriate. Rotavirus, Cryptosporidia	<1 week	6-8	Faeces (5g)		F
OEPG	Ovine Growing Lambs Enteritis Package	Salmonella, Coccidia, Worm egg count	>3 weeks	SD-5	Faeces (10g)		
OEPYA	Ovine Young Adult Enteritis Package	Salmonella, Coccidia, Worm egg count, Fluke ova	<2 years	2-5	Faeces (10g)		
COCS+	Coccidia Oocyst Sporulation	Coccidial oocyst sporulation and identification	Add to WEC	8-12	Faeces (5g)		F
OEPA	Ovine Adult Enteritis Package	Salmonella, Worm egg count, Fluke ova, Johne's smear	>2 years	2-5	Faeces (10g)		
WEC	Worm Egg Count and Coccidia	> 2 samples, price per test	All ages	SD-2	Faeces (10g)		
WECB	Worm Egg Count and Coccidia Pooled		All ages. Up to 10 samples	SD-2	Pooled faeces (min 3g per animal)		
FL	Fluke	> 2 samples, price per test	Stores and adults NON-quantitative test	2	Faeces (10g)		
FLB	Fluke Pooled		Stores and adults. Up to 10 samples	2	Pooled faeces (min 3g per animal)		
FLE	Liver Fluke Coproantigen ELISA			6-8	Faeces (5g) fresh as possible		F
FLEP	Liver Fluke Coproantigen ELISA Pooled		Up to 10 samples	6-8	Pooled faeces (5g per animal) fresh as possible		F
WFL	Coccidia Worm Egg Count and Fluke			SD-2	Faeces (10g)		
CRY	Cryptosporidia			SD	Faeces (1g)		

Ovine Other Tests

Code	Name	Includes	Comment	Wkg Days	Sample	Exc. VAT	F
CTXN	Clostridium Toxin ELISA		Price per toxin	2-5	Intestinal contents		F

See sample guide on pages 70 & 71

F Denotes a fixed price test which is non-discountable



Farm Animals

Porcine Serology

Code	Name	Includes	Comment	Wkg Days	Sample	Exc. VAT	F
PRRS	PRRS Antibody ELISA			5-7	SS/SG		F
SFLU	Swine Influenza A ELISA			7-10	SS/SG		F
SFLUPRRS	Combined PRRS Antibody and Swine Influenza A ELISA			5-7	SS/SG		F
MYHO	Mycoplasma Hyopneumoniae Antibody ELISA			7-10	SS/SG		F

Porcine Seminology

Code	Name	Includes	Comment	Wkg Days	Sample	Exc. VAT	F
SEM3	Sperm Morphology			1-2	Fresh or extended semen		
SEM4	Semen Bacteriology Pathogen Screen	Aerobic, microaerophilic and anaerobic culture, pseudomonads		3-5	Fresh or extended semen		
STVC	Total Viable Count at 30°C		<i>For microbiological load</i>	3-5	Fresh or extended semen		
STVC37	Total Viable Count at 37°C		<i>For microbiological load</i>	3-5	Fresh or extended semen		

Porcine Enteritis

Code	Name	Includes	Comment	Wkg Days	Sample	Exc. VAT	F
PSC1	Porcine Scour Package 1	Aerobic bacterial culture, Salmonella, antibiotic sensitivities as appropriate, Cryptosporidia	<i>1-5 Days</i>	2-5	Faeces or Intestinal contents		
EVPCR	E.Coli Virulence PCR	E.coli virulence PCR (after culture)		8-12	Faeces (5g)		F
PSC2	Porcine Scour Package 2	Aerobic bacterial culture, Salmonella, antibiotic sensitivities as appropriate, Cryptosporidia, Coccidia	<i>6 Days - 3 weeks post weaning</i>	2-5	Faeces or Intestinal contents or Rectal swab		
PSC3	Porcine Scour Package 3	Salmonella, Yersinia, Brachyspira spp PCR, Lawsonia intracellularis PCR	<i>Growing pigs</i>	7-10	Faeces or Intestinal contents		F
BRAPCR	Brachyspira PCR	PCR to distinguish pathogenic from non-pathogenic Brachyspira spp.		7-10	Faeces or Intestinal contents		F
PIAPCR	Lawsonia Intracellularis PCR			7-10	Faeces or Intestinal contents		F
BPPCR	Brachyspira PCR and Lawsonia Intracellularis PCR	Combined check for Swine Dysentery and PIA		7-10	Faeces or Intestinal contents		F
WEC	Worm Egg Count and Coccidia		<i>Sample from recovered piglets for coccidiosis</i>	SD-2	Faeces (3g)		

See sample guide on pages 70 & 71

F Denotes a fixed price test which is non-discountable

Certain referral test prices may change throughout the year, NWL reserves the right to amend these to cover the costs of delivering the service

Farm Animals

Porcine Dermatology

Code	Name	Includes	Comment	Wkg Days	Sample	Exc. VAT	F
MITE	Ectoparasites			7	Skin or ear scrapes or ears from dead pigs		
STHY	Staphylococcus Hyicus Isolation	Aerobic bacterial culture, antibiotic sensitivities as appropriate		2-3	Skin swab		

Other Tests

Code	Name	Includes	Comment	Wkg Days	Sample	Exc. VAT	F
HGM	Haemogram	RBC, Hb, Hct, MCV, MCHC, WBC and Diff, Platelet count and comment, Cellular morphology	<i>Reticulocyte count included in cases of moderate to severe anaemia</i>	SD	E + Blood smear		
HIST	Histological Examination	Samples <4cm Up to 4 tissues or anatomic sites Routine special stains as required	<i>For other Histology codes see the Histology section on page 33</i> <i>For large samples use HISG</i> <i>Each additional tissue</i>	2-5	Formalin fixed tissue		
BAC	Aerobic Culture	Antibiotic sensitivities as appropriate		2-3	Swab or Tissue		
BACF	Aerobic Culture + Salmonella	As above plus Salmonella		2-3	Swab or Tissue		
BAC+	Comprehensive Culture	Aerobic, anaerobic, microaerophilic and selective cultures as indicated, antibiotic sensitivities as appropriate		2-3	Swab or Tissue		
SALMF	Selective Culture for Salmonella			2-3	Swab or Faeces		
MICR	Microscopy		<i>Test relevant to history given on form</i>	SD-2	Faeces		

Histology samples memo

- Specimens should be no more than 10mm thick. Fix in 10% neutral buffered formalin (NBF) which is available on request. Interpretation will be aided by a relevant clinical history, description of the lesion and site.
- Please use the histology pots provided and make sure that the pot is properly labelled.
- Please do not use narrow necked containers.

See sample guide on pages 70 & 71

F Denotes a fixed price test which is non-discountable

Large specimens

- All biopsies should be fixed in 10% NBF. Maximum tissue thickness to allow optimal penetration of NBF is 10mm³.
- Some samples are too large, e.g. mammary strips, spleens, limbs. You can either take multiple representative samples of up to 10mm³ from different areas of the lesion. We will examine up to 4 specimens for the same price.
- Or alternatively, if you want to send the whole sample please fix it prior to sending in a large container containing 10% NBF at the practice for 48 hours prior to submission.
- You will need to make some incisions into the sample approx. 10mm apart to allow it to fix.
- After 48 hours fixation, take out the specimen and then wrap in wet paper towels, place in a sealable plastic bag or container with a sealable lid. Double bag with cotton wool between the bags to absorb any fluid that might leak out. Please make sure the sample will not leak.
- You can request foam cassettes or "TBags" for tiny samples, e.g., endoscopies



NationWide Orivet DNA Profiling

Innovative Preventative Medicine

Imagine being able to predict the likelihood of disease by analysing the genome and lifestyle of your patients, then tailoring a lifetime of veterinary care in line with their potential risk factors. You would achieve truly personalised veterinary medicine. Now stop imagining because NWL, in partnership with Orivet UK are offering exactly this

Animals of all ages, but ideally puppies and kittens can be genetically screened for hereditary diseases and traits buried within their DNA (Health Screen). Health screens check for all breed related or relevant genetic diseases or traits

Identifying risk permits implementation of specific monitoring programs or procedures to either prevent development of disease or ensure early diagnosis and treatment

The genetic information, along with knowledge of diet, lifestyle, breed, age, weight, gender and environment are used to rank risks based on prevalence and severity and develop a personalised health and wellness plan (Orivet LifePlan™)

This innovative collaboration enables you to operate a bespoke healthcare management program which is appropriate throughout the life of the pet

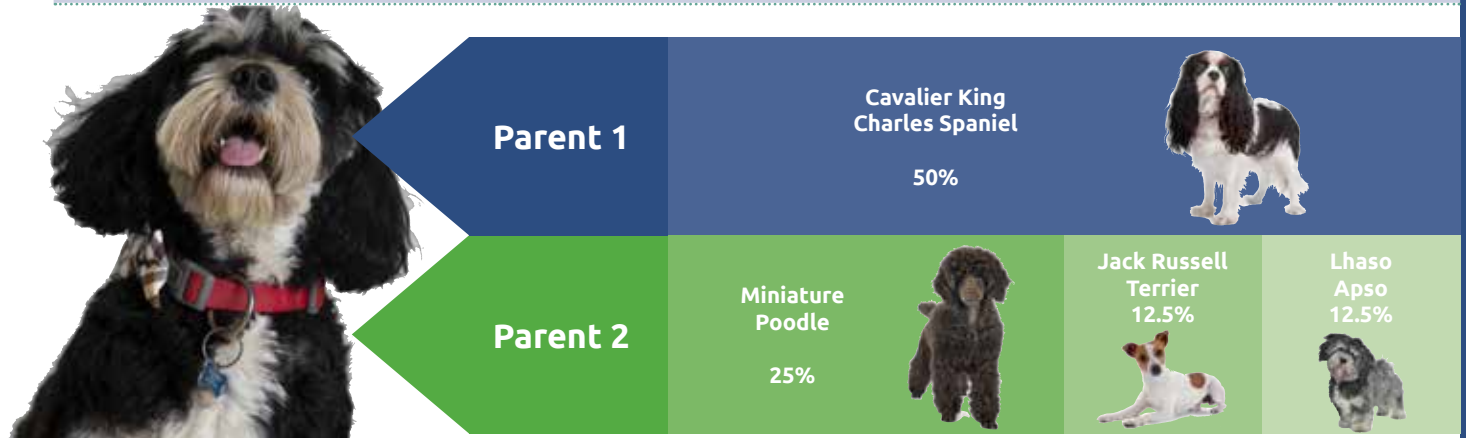
Owners receive regular email alerts relating to routine parasite control, vaccination, health screening or monitoring; this initiates a visit to the surgery thereby strengthening the Vet-Client-Patient bond

We also offer Breed Specific Profiles:

- Basic Breed Profiles: the basic/key diseases + a DNA profile
- Full Breed Profiles: all the above + key phenotype (colours and furnishings)
- Comprehensive Breed Profiles: all the above/ complex single assay tests (new tests and add-ons)
- Coat Colour Profiles: test for colours/no diseases
- Please email info@nwlabs.co.uk for more details and price information.

Call 01253 899215 for further information or visit www.nwlabs.co.uk

Code	Name	Includes	Comment	Wkg Days	Sample	Exc. VAT	F
ORIVP	DNA Swab Pack			2	N/A		F
ORIV1	Breed ID and LifePlan		<i>For mixed breeds</i>	28	DNA Swab Pack		F
ORIV2	Dog Health Screen		<i>For pure breeds and dogs with known breed makeup</i>	28	DNA Swab Pack		F
ORIV3	Breed ID and Health Screen Combo		<i>Comprehensive test for mixed breeds, includes lifeplan</i>	28	DNA Swab Pack		F
ORIV4	Cat Health Screen		<i>For known cat breeds, the DSH and DLH</i>	28	DNA Swab Pack		F
ORIVD	Individual DNA Test			28	DNA Swab Pack		F



General enquiries: 01253 899215 65



HOW CLEAN IS YOUR PRACTICE?

We offer you a microbiological screening programme to screen your facilities and equipment. Swabs are supplied with simple instructions and a postage paid envelope for return to our laboratory for testing.

The package includes (but is not limited to) cultures for major groups of microorganisms: Staphylococci, Clostridia, Pseudomonadaceae, Bacilli, Yeasts and Fungi.

Call 01253 899215 and quote CLEAN for our cleanliness package

www.nwlabs.co.uk



NationWide
LABORATORIES

Water Quality

We are here to help you

We all know that hydrotherapy in conjunction with veterinary treatment can assist in improving the rate of recovery and healing of animals after injury or surgery. At NationWide Laboratories we can assist you in demonstrating to your clients that your facility meets the guidelines for water safety and quality through our hydro pool testing service, which meets the requirements of hydrotherapy associations such as CHA and NARCH.

We will provide you with the sample bottle, guidance on how to take the sample and prepaid postage to get the sample to us.

You will receive a report of printed enumerated results for total viable count at 37 degrees itemising total coliforms, E. coli, Pseudomonas aeruginosa and guidance for interpretation.

Simply call 01253 899215 or email info@nwlabs.co.uk for more information.

NationWide Specialist Laboratories

Laboratory Assay Schedule

Monday	Tuesday	Wednesday	Thursday	Friday
T4	T4	T4	T4	T4
Cortisol	Cortisol	Cortisol	Cortisol	Cortisol
Insulin	TSH	OHP	Insulin	TSH
Canine ACTH	Feline TLI	Sarcoptic Mange	Feline TLI	T3
		PMSG	CPSE	T3/T4 Antibodies
All Biochemistries	All Biochemistries	All Biochemistries	All Biochemistries	All Biochemistries
Ionised Calcium	Ionised Calcium	Ionised Calcium	Ionised Calcium	Ionised Calcium
		AMH		Relaxin
				Progesterone*
Assays Set up Today Include	Assays Set up Today Include	Assays Set up Today Include	Assays Set up Today Include	Assays Set up Today Include
Oestrone Sulphate	Testosterone		TGAA	IGF1 (to incubate over weekend)
FT4ED	Oestradiol		FT4ED	
	Aldosterone	PTHrP		
PTH	PTH	PTH	PTH	PTH
(Androstenedione run on alternate Mondays) - please check with Customer Services for details				
Results Available PM	Results Available PM	Results Available PM	Results Available PM	Results Available PM
IGF1	Oestrone Sulphate	Testosterone		TGAA
	FT4ED	Oestradiol	PTHrP	FT4ED
		Aldosterone		

Please Note

Should a result be needed urgently please contact Customer Services as it may be possible to run the assay sooner than the above schedule

This service will incur an extra charge (usually double list price)

***Premate Progesterone** - Assayed on day of receipt

Courier

For frozen samples requiring a specialist courier please contact the laboratory on **01223 493400** to arrange.

NationWide Canine and Feline Test Protocols

Reproductive Function Tests

Stimulation Tests for Detection of Canine Ovarian Tissue (OVA)

Protocol 1:

- Collect basal sample of 2ml serum
- Inject hCG (Chorulon®. MSD) 200IU for bitches weighing 9-15kg or 300IU for bitches of 15-20kg. Extrapolate up to a maximum of 500IU for bitches >20kg i/v or i/m

Anaphylactic reactions may occur

- Collect second sample at 90-120 minutes
- Separate serum and label tubes clearly prior to despatch to the laboratory

Protocol 2:

- Collect basal sample of 2ml serum
- Inject 0.32ug GnRH analogue buserelin (Receptal®, MSD) i/v or i/m. It may be helpful to dilute the drug 1:10 with sterile water and inject 0.8ml

Receptal is not licensed for use in dogs

- Collect second sample at 3 hours
- Separate serum and label tubes clearly prior to despatch to the laboratory

hCG Stimulation Test for Canine and Feline Cryptorchidism (RIG3)

Protocol:

- Collect basal sample of 1-2ml blood
- Inject 200 – 500IU (dog) or 100 - 500IU (cat) hCG (Chorulon®, MSD) i/v
- Re-sample 30-120 minutes post hCG
- Separate serum and label tubes clearly prior to despatch to the laboratory

Chorulon®, MSD is not licensed for use in cats

hCG Stimulation Test for Detection of Feline Ovarian Tissue (OVAR)

- The test must be performed 1-3 days after the onset of oestrus behaviour

Protocol:

- Collect basal sample of 1ml blood
- Inject i/m 500 IU hCG (Chorulon®, MSD)
- Take further blood sample 7 days later
- Separate serum within 30 minutes of collection and label tubes clearly prior to despatch to the laboratory

Chorulon®, MSD is not licensed for use in cats

Reproductive status can also be assessed using Anti-Mullerian Hormone, see page 29

AMH levels should be undetectable in neutered animals

Do not use gel tubes for hormone assays

Dynamic Testing for Hyperadrenocorticism

Canine Low Dose Dexamethasone Suppression Test (DSCR)

- Dogs with suspected spontaneous hyperadrenocorticism (Cushing's disease). This test yields fewer false negative but more false positive results than the ACTH stimulation test. In around 60% of cases of canine hyperadrenocorticism it can provide differentiating information (pituitary vs adrenal)

Protocol:

- Collect basal sample of 2ml blood
- Inject 0.01-0.015mg/kg soluble dexamethasone i/v (dilution may be required)
- Take further blood samples 3 and 8 hours post dexamethasone
- Separate serum and label tubes clearly prior to despatch to the laboratory

Canine ACTH Stimulation Test (ACTH)

- Dogs with suspected spontaneous or iatrogenic hyperadrenocorticism (Cushing's disease)
- Dogs with suspected hypoadrenocorticism (Addison's disease)
- Monitoring response to treatment of dogs on trilostane (Vetoryl®)
- Cats with suspected iatrogenic hyperadrenocorticism. In rare cases where spontaneous feline hyperadrenocorticism is suspected a combined dexamethasone suppression/ACTH response test is recommended (DXAC)

Protocol:

- Collect basal sample of 2ml blood, 4-6 hours post-pill for Trilostane (Vetoryl®) monitoring
- Inject ACTH (Cosacthen®, DVP) i/v or i/m at a dose rate of 5ug/kg (0.02ml/kg)
- Take further blood sample 60-90 minutes post ACTH
- Separate serum and label tubes clearly prior to despatch to the laboratory

Cosacthen®, DVP is not licensed for use in cats

Evaluation of Liver Function

Bile Acids Stimulation Test (BAPF)

Protocol:

- Overnight fast is not required prior to test
- Collect basal sample of blood
- Feed patient. For anorexic animals feed highly nutritious or convalescent diet (Hills a/d or similar). Oil/fat supplementation should not be necessary
- Re-sample 2 hours post feeding
- Separate serum and label tubes clearly prior to despatch to the laboratory

NationWide

Equine Test Protocols

Dynamic Testing for Pituitary Pars Intermedia Dysfunction

Equine (Overnight) Dexamethasone Suppression Test (DSUE)

- For use in horses with suspected hyperadrenocorticism due to pituitary pars intermedia dysfunction (PPID)

Protocol:

- Collect basal sample of 2ml blood in the evening (e.g. 5pm)
- Inject 0.04mg/kg dexamethasone i/m
- Take further blood sample 20 hours later (e.g. 1pm)
- Separate serum and label tubes clearly prior to despatch to the laboratory

NB: Endogenous ACTH and insulin assays may also be helpful

Basal plasma ACTH

Protocol:

- Collect EDTA plasma sample
- Chill sample within 3 hours of collection
- Separate plasma prior to sending to laboratory and keep chilled.
- Send to laboratory with courier or guaranteed overnight delivery in ice pack/chilled packaging

NB: If normal or equivocal ACTH result is obtained then measuring ACTH pre and post TRH is advised

ACTH TRH stimulation test (TRHE)

Protocol:

- Collect baseline EDTA plasma sample.
- Inject 0.5 mg TRH (horses < 250 Kgs) or 1 mg TRH (horses > 250 kgs) intravenously.
- Collect a further EDTA plasma sample at 10 minutes and/or 30 minutes later for assessment for post-TRH ACTH concentration

NB: Process plasma samples as per instructions above for basal ACTH measurement. ACTH TRH is not licensed for use in equines

Testing for Cryptorchidism

Oestrone Sulphate for Equine Cryptorchidism (OSR)

- For use in horses and ponies more than 3 years old. NOT suitable for donkeys*

Protocol:

- Collect 2ml of blood
- Separate serum and label the tube clearly prior to despatch to the laboratory

NB: Approximately 2% of tests give equivocal results. Both oestrone sulphate and hCG stimulation tests are advisable in suspect Rigs likely to be the subject of a dispute/legal proceedings

hCG Stimulation Test for Equine Cryptorchidism (HCG)

- For use in horses and ponies, also suitable for donkeys

Protocol:

- Collect a basal sample of 2ml blood
- Inject 6000IU of hCG (Chorulon®, MSD) i/v
- Re-sample 30-120 minutes post hCG
- Separate serum and label tubes clearly prior to despatch to the laboratory

NB: Approximately 11% of tests give equivocal results. Both oestrone sulphate and hCG stimulation tests are advisable in suspect Rigs likely to be the subject of a dispute/legal proceedings







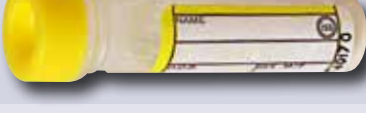
The protocols shown on these pages provide basic guidance. Please contact the laboratory if you require further details or other protocols

*Equine Anti-Mullerian hormone (EAMH) may also be used to detect testicular tissue and is suitable for animals under 3 years of age, see page 51.

NationWide



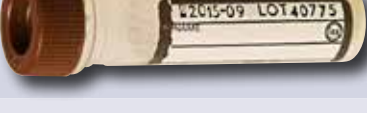

Sample Guide - Bloods

Different sample types, blood tubes required and their main indications for use. Always ensure tubes are correctly filled (to the line) and in-date

E	EDTA (Pink top)	Anti-coagulated whole blood	<i>Haematology</i>	
EP	EDTA plasma (Pink top)	Separated/centrifuged whole blood	<i>*Hormones</i>	
Cit	Sodium Citrate (Green top)	Anti-coagulated whole blood	<i>Coagulation</i>	
HB	Heparin Whole Blood (Orange top)	Anti-coagulated whole blood (HB)	<i>Reptiles/Avians</i>	
HP	Heparin Plasma (Orange top)	Separated/centrifuged whole blood	<i>**Biochemistry</i>	

*Unstable hormones or enzymes, eg ACTH, PTH, Renin

** In general serum is the preferred sample for biochemistry

OxF	Oxalate Fluoride (Yellow top)	Anti-coagulated whole blood	<i>Glucose</i>	
SS	Separated Serum (White top)	Clotted blood	<i>Biochemistry</i>	
SG	Spun Gel (Brown top)	Clotted blood	<i>Biochemistry</i>	
P	Plain Tube (White top)	Clotted blood/serum if separated	<i>Biochemistry</i>	

Notes





- For haematology submit anti-coagulated whole blood (EDTA, Citrate, HB) and 2 fresh, air dried smears
- Serum (SS/SG) is the **preferred** sample for biochemistry for all species
- For small patients, avian and reptiles, heparinised blood (HB) is the most **convenient** sample since it can be used for haematology and biochemistry; 2 fresh (not bottle) air dried smear are also required
- **Glucose Testing** - Blood glucose measurement should be performed on fasted blood whenever possible. A separated serum/spun gel is the preferred sample type for Glucose measurement. Serum/spun gel separation should be performed within 30 minutes of taking the sample. Fluoride Oxalate tubes may also be used for Glucose measurement.
- Samples which require special handling: PTH, PTHrP, ACTH see page 25
Renin see page 27
- Serum Gel tubes **should not** be used for therapeutic monitoring, hormone assays or ionised calcium (iCa) estimation
- If sample volume is inadequate for all of the test in a profile, please prioritise the analytes accordingly otherwise they will be processed in a standard order
- Sample supply tubes for **large animals** are also available from the laboratory.

NationWide


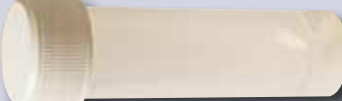
Sample Guide - Microbiology

A guide to help you provide the correct samples. Photographs of swabs or receptacles are accompanied by their description and major indications for use


Routine Culture

Sterile plain tube		Culture of fluid, washes or tissue (wrap tissue in a sterile, saline soaked swab to avoid dessication)	
Charcoal Swab	Charcoal transport media	Use for all submissions requiring cultures. Essential for organisms destroyed by light (CEMO); preferred for Bordetella bronchiseptica	
Plain Swab	No transport media	Use for PCR. Dry swabs can be moistened in sterile saline prior to sampling	
Virology Swab	Viral transport media	Use for Virus isolation	

Urinalysis and culture

Boric Acid (Red top)	Bacteriostatic	Urine culture, when transit time to the laboratory >2 hrs		Fill the tube to the line to avoid too high a concentration of boric acid which may have a bactericidal effect on some Gram-ve organisms For samples obtained by cystocentesis preservative may not be required
Plain Tube (White top)		Urine sediment examination and chemical analysis		

Faecal analysis and culture

Universal Containers (A) without spatula or (B) with spatula		A minimum of 10g of faeces is required Faecal pathogens may be shed intermittently, where possible submit 3 samples collected at 48 hour intervals as a single pooled sample If submitting feline faeces for Tritrichomonas PCR, multiple samples should be collected over 24 hours and submitted without cat litter
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Blood and Joint fluid culture

Samples will be incubated prior to culture:
Joint samples (overnight),
Blood culture samples (up to 10 days)

Joint fluid culture

Inoculate 5ml of Fast Anaerobe broth with 0.5ml of synovial fluid



Blood culture

Inoculate 50ml of Fast Anaerobe broth with 5ml of blood



NationWide

Sample packaging instruction for lockbox courier



Appropriate biohazard bags

Use appropriate biohazard bags for packaging samples.

Separate bag for each submission

Use a separate biohazard bag for each submission/case.

Absorbent material

Package samples in enough absorbent material to soak up the contents.

Place tissue fixed in formalin in a well-sealed plastic histology container and then sealed bag

Tissues fixed in formalin should be placed inside a well-sealed plastic histology container. The histology container must be enclosed in sealed plastic bag with enough absorbent material to absorb the formalin in the event of a leak. This should be placed in an additional outer bag or container. **Please note: all pots should have the animal's and owner's name.**

Do not pack cytology slides in the same bag as formalin fixed tissue

Cytology slides should never be packaged in the same bag as tissue fixed in formalin. The slides should be put in slide mailers in a separate bag to avoid contamination from formalin fumes as the fumes from the formalin cause cellular changes which can affect the reading of the cytology. **Please note: all slides should have the animal's and owner's name.**

One submission form per sample in a biohazard bag

Please state the animal's name and owner on the submission form. Ensure the submission form is placed in the side pocket of the biohazard bag. Please **do not separate the samples from the form.** Please **do not place multiple forms and samples from different animals in the same biohazard bag.**

Prepare for collection

Place all the sample submissions for collection into the large white stamped bag (**sustainably sourced, carbon neutral, fully recyclable, made from sugar cane**). Please use the bags provided to hold all the samples individually packed into biohazard bags.

Count the number of submissions, **complete the stamped area on the bag with your CLIENT CODE, NUMBER OF SUBMISSIONS and DATE.**

Seal the bag and place in the lockbox for collection.

Replacement bags should be ordered using the sample supplies ordering system. These will NOT be left by the courier driver.

NationWide

Practice Management Systems Interface

We understand how important it is to incorporate laboratory reports into client records. We work with the key suppliers to transmit your results, whether by fax, email (both) or direct to patient records through practice management systems. We have extensive experience of electronic result integration and are compatible with multiple providers including the transmission systems Vet-XML and VetEnvoy

Integrated laboratory request forms

- No more written request forms
- External lab fees captured at request form generation
- Demographic data automatically transferred to the form
- Generate your **laboratory request form** from your practice management system - never run out again

Results direct to patient records

- Laboratory results automatically integrated in patient or consultation records
- No more typing results
- Forget cutting and pasting
- Goodbye to scanning faxes



Practice Management System	Lab Requests	Lab Results
RxWorks	Fully integrated laboratory request form	Results sent via FTP. RxWorks checks for available results and attaches to consultation record
Vetsolutions Premvet	Fully integrated laboratory request form	Results sent via E-mail to Vetsolutions Server and integrated automatically into patient record
Vetsolutions Robovet	Fully integrated laboratory request form	Results sent via E-mail to practice to save locally or sent via FTP for webmail users (Yahoo, AOL etc)
Teleos	Fully integrated laboratory request form and electronic request data submission via Vet Envoy	Results sent via VetEnvoy and attached to patient record
Vet-One	Demographic sticker to attach to paper request form	Results sent via VetEnvoy and attached to patient record
VetCom Open	Demographic sticker to attach to paper request form	Results sent via E-mail to practice and integrated automatically into patient record
Midshire Ventana	Fully integrated laboratory request form and electronic request data submission via Vet Envoy	Results sent via VetEnvoy and attached to patient record
VetIT	Fully integrated laboratory request form and electronic request data submission via Vet Envoy	Results sent via VetEnvoy and attached to patient record

We are constantly updating the performance of our systems. Speak to the laboratory or your practice management systems provider about systems not listed above

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Note: test name may be prefixed by species

F Denotes a fixed price test which is non-discountable

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F Denotes a fixed price test which is non-discountable

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NationWide

Terms and Conditions

The following terms and conditions are the terms on which NationWide Laboratories ("NWL"; a trading business of National Veterinary Services Ltd.) provides services and supersedes all other terms and conditions relating to those services. No variation or addition is effective unless NWL has made written agreement

1. Definitions and interpretation

In these Terms and Conditions:- "this Agreement" means the contract between NWL and the Client for the supply of the Services, incorporating these Terms and Conditions; "Client" means the person or organisation to whom NWL has agreed to provide Services; "Group" in respect of any company, means such company, its subsidiaries and holding companies and the subsidiaries of such holding companies ("holding company" and "subsidiary" having the meanings given in the Companies Act 1985); "Sample" means a sample provided by the Client to NWL for investigation; "Services" means the conduct of the Tests specified in the Laboratory Request Form submitted by the Client and accepted by NWL, and/or such other services as NWL has agreed to supply to the Client; "NWL" means NationWide Laboratories A trading business of National Veterinary Services Ltd. or such other member of its Group as has agreed to provide the Services; "Test" means a laboratory test agreed to be carried out by NWL on a Sample supplied by the Client.

2. Price and payment

- 2.1 The price for the conduct of the Services shall, unless otherwise agreed, be as specified in written quotation or in NWL's published Laboratory Price List or appropriate addendum current at the time the Services are requested. The price payable for the Services is the net price (after deduction of any discounts) and is exclusive of all taxes, duties and any other impositions whatsoever, which if applicable shall be paid by the Client in addition to the price. Any other charges stated separately from the price are payable by the Client at the same time, and shall be treated as part of the price. VAT is payable on laboratory services.
- 2.2 Invoices are normally issued on a monthly basis, but NWL reserves the right to issue them more frequently. Generally, invoices will be issued only for tests and services that have been completed, however, in certain circumstances, NWL may charge proportionally for partly completed service requests. Invoices are subject to a minimum charge of £10.00.
- 2.3 Invoices are payable without set-off (credit charges and settlement discounts excepted) within 30 days from the date of issue. Invoices may be subject to a credit charge which may be deducted if payment is made by the date shown on the invoice. At NWL's option interest may be charged on late payment at a rate of 5% over the base rate. Invoices paid from outside the UK must be paid by either direct bank transfer or by cheque drawn on a UK branch. All payments shall be made in pounds sterling.
- 2.4 Should payment not be made by the due date NWL reserves the right to suspend the provision of all services until payment is received.

3. Services

- 3.1 NWL will provide the Services with reasonable care and skill and in accordance with its operational quality assurance standards. Should an occasion arise where NWL fails to provide its services in such a manner, NWL's obligations and the Client's exclusive remedies shall be limited to NWL, at its option: Re-performing the relevant Services; or (b) Refunding to the Client the proportion of the charges reasonably attributable to the defective Services.
- 3.2 The Client shall provide NWL with such information as NWL may reasonably be expected to require concerning the Samples supplied by the Client and the persons from whom they were taken to enable NWL to conduct the Tests and to report thereon. NWL will accept no responsibility for any error or defect in a Test or the report thereon consequent upon any inaccuracies in or omissions from such information supplied by the Client or for any consequences of such errors or defects. No warranty is given that the Services are appropriate or sufficient for the Client's intended purposes (whether or not known to NWL).
- 3.3 Whilst every effort is made to achieve the turn-around times quoted by NWL for the conduct of Tests, no warranty or guarantee is given that such turn-around times which are given by way of estimate will be achieved in any particular instance.
- 3.4 Upon completion of a Test any related surplus Sample may be destroyed or disposed of by NWL or used for method development, validation or quality assessment unless otherwise indicated by written agreement. Following the completion of requested tests, NWL assumes ownership of surplus sample and responsibility for proper disposal.

4. Cancellation/Change request

Where a request is made by the client to cancel or substantially alter a requested Service, NWL reserves the right to charge for reasonable costs incurred in the receipt and processing of the sample up to the point at which the notification to cancel or change is received. If the test has already been completed before receipt of the cancellation request, the client is liable for the normal listed price of the Service. Cancellation and change requests should be made in writing (and faxed or e-mailed).

5. Liability

- 5.1 Subject at all times to paragraph 5.3 and whether or not NWL has been advised of the possibility of such loss, NWL shall not be liable in respect of the Services in contract, tort or otherwise howsoever arising from any claim, damage, loss or costs in respect of: (i) any direct loss of profit; (ii) any direct loss of anticipated savings; or (iii) any indirect or consequential loss or damage howsoever caused (directly or indirectly by the provision of the Services or of any defect or error therein, or of the performance, non-performance or delayed performance of the Services) including without limitation, any indirect loss of profit, loss of anticipated profit including loss of profit on contracts, loss of the use of money, loss of anticipated savings, loss of business, loss of opportunity, loss of goodwill, loss of reputation; and/or loss of data.
- 5.2 To the extent not covered by any other limitations the maximum liability of NWL to the Client under or in connection with this Agreement, whether

arising in contract, tort, negligence, breach of statutory duty or otherwise, shall be £100,000 less any sums paid by NWL to any client of the Client or other third party in satisfaction of a liability arising out of the same facts and circumstances.

- 5.3 The limitations in this paragraph shall only apply where permitted under applicable law. In particular, NWL does not limit its liability to the Client for human death or personal injury caused by its negligence or for fraud.

6. Defects

- 6.1 The Client shall give NWL written notice of any defects in Services as soon as it is aware of them and shall in any event give NWL detailed written notice of those defects within 60 days of the Services being supplied.
- 6.2 The Client shall not be entitled to make any claim in respect of any defects except when it has given notice as required by this Clause.
- 6.3 In respect of any defects in the Services notified to NWL, NWL shall, at its sole option, either use all reasonable endeavours to make good such defects without further charge or refund the price for the defective services to the Client.

7. Confidentiality

- 7.1 NWL agrees that it will hold and maintain the confidence of all confidential information of the Client and their patients which is received by NWL from the Client in connection with the Services and will not disclose such information other than to its professional staff, independent consultants and/or persons to whom it has delegated the performance of the Tests and who require the information for such purpose.
- 7.2 The restrictions in paragraph 7.1 shall not apply to information which: (i) was in NWL's possession prior to disclosure by the Client; or (ii) is now or hereafter comes into the public domain other than by default of NWL; or (iii) was lawfully received by NWL from a third party acting in good faith having a right of further disclosure; or (iv) is required by law to be disclosed by NWL.

8. Force Majeure

In the event that performance of the Services is rendered uneconomic, prevented or delayed as a result of circumstances or a cause beyond the reasonable control of NWL (including, without limitation, flood, fire, storm, strike, lockout, sabotage, terrorist act, civil commotion and government intervention), NWL may by written notice to the Client, at NWL's option, either cancel, suspend or postpone performance of the Services with no liability on either side.

9. Validity and Severability

The complete or partial invalidity or unenforceability for any reason of any part of these terms and conditions shall not prejudice or affect the validity or enforceability of the remainder. Any such provisions shall be deemed to be severed and the remainder shall remain in full force and effect subject to such consequential modifications as may be necessary to give effect to them.

10. Assignment

NWL may assign or sub-contract the performance of this Agreement (in whole or in part) or any one or more of the Tests to be performed hereunder. The Client may not assign this Agreement or any of its rights or obligations without written consent of NWL.

11. Third party rights

Notwithstanding any other provision of this agreement, nothing herein shall confer nor is it intended to confer a benefit on any third party for the purposes of the Contract (Rights of Third Parties) Act 1999 or for any other purpose.

12. Termination

If the buyer enters into a deed of arrangement or commits an act of bankruptcy or compounds with his creditors or if a receiving order is made against him or (being a company) it shall pass a resolution or the court shall make an order that the Client should be wound up (otherwise than for the purposes of amalgamation or reconstruction) or if a receiver (including an administrative receiver) shall be appointed to any of the assets or undertaking of the Client or if the Client suffers the appointment or the presentation of a petition for the appointment of an administrator or if circumstances shall arise which entitle the Court or creditor to appoint a receiver (including an administrative receiver) or a manager or which entitle the Court to make a winding-up order or if the Client takes or suffers any similar action in consequence of debt or if the financial responsibility of the Client shall, in the opinion of NWL, become impaired or if the Client shall commit any breach of any part of the Agreement NWL may without prejudice to its rights and remedies under these conditions stop all services in progress and suspend service provision and by notice to the Client may terminate the Agreement immediately and declare immediately due, any amounts owed by the Client to NWL under any Agreement

13. Intellectual Property

The client acknowledges that title to the Intellectual Property Rights in the tests and services is and remains at all times exclusively NWL's and that the Client has no right to use, disclose, copy or otherwise dispose of the same.

14. Notices

- 14.1 All notices given under this Agreement shall be in writing and shall be delivered by hand or sent by prepaid first class post or by prepaid first class recorded delivery or by facsimile transmission or by e-mail.
- 14.2 Any notice or document shall be deemed served, if delivered, at the time of delivery; if posted, 48 hours after posting, and if sent by facsimile transmission or e-mail, at the time of transmission (within business hours)

15. Governing law and jurisdiction

The laws of England and Wales shall govern this agreement.

NationWide

General Information

NationWide Laboratories is a UKAS, ISO 17025 accredited Testing Laboratory (NationWide Labs Poulton – No: 1733). The laboratories are accredited for a wide range of diagnostic tests. A copy of the schedules of accreditation is available online at www.ukas.com. The United Kingdom Accreditation Service UKAS, operating under a memorandum of understanding with the government through the secretary of state for trade and industry, is the only official body in the UK that offers accreditation of analytical laboratories and all types of testing to an internationally recognised standard, ISO 17025. The standard demands evidence of staff competence, documented procedures, test validation, strict internal and external quality assurance and calibration of all measurements to traceable national standards. Accredited laboratories undergo independent annual audits.

So that we can provide you with the best possible test methodology, we subcontract a selection of our tests to specialist laboratory facilities. Please contact us for further information on subcontracted tests if required.

Quality Statement

It is the declared policy of NationWide Laboratories that the laboratories shall strive to achieve and maintain the highest standards of quality in all aspects of laboratory work.

As part of the commitment to quality the Company participates in the following externally audited quality assessment schemes:

Microbiology

- LGC Hygiene EQA
- PHE Pool Water EQA
- LGC Food EQA
- VETQAS Small Animals Microbiology EQA Scheme
- VETQAS Ectoparasites EQA Schedule
- WEQAS POCT Urinalysis EQA

Biochemistry

- RIQAS Clinical Biochemistry
- RIQAS immunoassay

Haematology

- UK NEQAS Haematology

Histology

- UK NEQAS Histology
- UK VETQAS Histology EQA

Accreditations

- UKAS Accredited Testing Laboratory No 1733 ISO 17025 (Poulton)

Transportation of Samples

Overnight: Utilising our Lock Box facility, samples collection can be arranged for laboratory clients in many circumstances from across the UK mainland. Samples are collected overnight and delivered to the laboratory early on the next working day.

Same day: Provided through our partnership with NVS a same day collection service operates throughout the UK. The system operates a same day collection from the practice with delivery into the laboratory later the same working day. The laboratory will endeavour to produce results for "same day" tests on the day of arrival into the laboratory. The laboratory will also endeavour to advise practices should circumstances beyond their control cause delays.

Next day: Collection of samples can in certain circumstances be arranged from anywhere in the UK mainland for overnight delivery to the laboratory. Samples are collected during the day and delivered to the laboratory by the next working day. Please ensure samples are packaged correctly and clearly labelled using guidelines for Postal Packaging.

Note: Courier service does not operate on bank and public holidays.

Large Animal Sample Collections: Collections are arranged separately to normal sample collections, please call the lab to arrange a collection.

Postal Samples: Free pre-paid postal packs (Post Office First Class Priority Sort, Free Post Service) are available on request. (To minimise postal delays you should be aware of the last posting time for next day deliveries from your area.)

Packaging Postal Samples: Diagnostic specimens must be packed to comply with UN3373 packing Instructions P650. It is not a requirement that packaging shall be approved. In brief the requirements are:

- Sample volume must be less than 50ml
- Wrap in enough absorbent material to absorb contents
- Seal in a leak proof container/bag
- Place in a protective outer package and mark "BIOLOGICAL SUBSTANCE CATEGORY B" with the senders address shown on the back of the packet

It is the responsibility of the sender to ensure that samples are correctly packed.

Postage Charges: Postage will be charged if the sender requests the return of any samples submitted. The Freepost address labels are only to be used for the submission of veterinary diagnostic sample to the laboratory. All other parcels sent using this system may result in the sender being liable for the postage fee.

Overseas Samples: The laboratory is licensed under The Animal Health Act 1981, Importation of Animal Products and Poultry Products Order 1980 (as amended), Importation of Processed Animal Protein Order 1981 (as amended) to import Veterinary Diagnostic Pathology Samples derived from Canines, Felines, Equines, Rodents and Lagomorphs. Please contact the laboratory if the current licence number is required.

Sample Collection

Occasionally samples are received in a condition, which may affect some tests or prevent the tests requested being carried out, e.g. broken, leaked or deteriorated samples. In these circumstances the laboratory shall carry out those tests that are possible. Missing or unreliable tests will be completed or repeated if a replacement sample is submitted.

Turnaround Times /Working Days

The price list includes a guide to turnaround times for each test. **These times are for guidance only.** They refer to working days and may not include weekends. If you have a time critical sample please contact the laboratory to confirm the current situation.

Reports

Reports include reference ranges and flagging of significantly out of range values. If a clinical history is submitted, interpretation or comment is provided where appropriate. Results are reported as soon as they are available. Electronic reporting to your chosen email address is available as standard.

Follow Up and Group Testing

A discount is offered on FOLLOW UP TESTS used to monitor clinical progress. The discount is restricted to routine biochemistry and haematology. (We will consider follow up discounts for other tests where long term monitoring is required.) Please contact Client Services to discuss your requirements.

To ensure that FOLLOW UP discounts are appropriately applied, the test must be:

- A repeat of a previous test
- Submitted within four weeks of the previous test
- Submission forms must be clearly marked FOLLOW UP
- Submission forms must show the previous laboratory reference number in the appropriate section of the submission form

Discounts may be offered for group testing, where multiple samples for the same test are submitted together, e.g. profiles performed on whole litters. Please contact Client Services to discuss your requirements.

Sampling Requirements

A range of sampling materials are available on request. The laboratory utilises the NVS (National Veterinary Services) distribution network to fulfil sampling material orders. Please contact Client Services for further information.

GDPR

GDPR policy available on request or can be seen at www.nwlab.co.uk

NationWide Laboratories

Telephone

01253 899215

Email

info@nwlabs.co.uk

A telephone answering service is in operation when the laboratories are closed.

Address

Lancefield House
23 Mains Lane
Little Singleton
Poulton-le-Fylde
Lancashire FY6 7LJ

Opening times

Monday to Friday:
8.00am - 5.30pm
Saturday:
8.00am - 12.00pm



NationWide Specialist Laboratories

Telephone

01223 493400

Email

csls.info@nwlabs.co.uk

Address

Units S5 and S6, The Saxon Building
Eastern Counties Leather Ind Est
London Road, Pampisford
Cambridge CB22 3FJ

Opening times

Monday to Friday:
8.00am - 4.30pm

For frozen samples requiring a specialist courier please contact the laboratory on 01223 493400 to arrange.

NationWide Laboratories Newton Abbot

Telephone

01626 353 598

Email

abbey.admin@nwlabs.co.uk

Address

89 Queen Street,
Newton Abbot,
Devon
TQ12 2BG

Opening times

Monday to Friday:
9.00am - 5.00pm



@NationWideLabs



nationwide-laboratories



Price List effective from 1st May 2024. Please note all prices are exclusive of VAT - E&OE. We reserve the right to change prices without prior notice.
NationWide Laboratories is a trading business of National Veterinary Services Ltd registered in England & Wales (Reg No. 8489997)
Reg. Add.: Spitfire House, Iron Place, Stoke-on-Trent, ST1 5FG VAT No.GB 169 1627 83.



NationWide
LABORATORIES



NationWide Laboratories

Price List 2024/25

Delivering excellence in animal health