



Opening times, Reporting and Support

TDDS is open:
8.30 am to 5.30 pm, Monday to Friday
8.30 am to 12.30 pm on Saturday.

Out of hours telephone support for emergencies is available on **01884 881758**.

Haematology, profiles, telemedicine, endocrinology and most serology tests are reported on the day of receipt.

Cytology is reported on the day of receipt or the day following receipt.

qPCR results are reported on Wednesday and Friday. Bacteriology and histopathology reporting times are 1-5 days.

All tests except 'screens' include full specialist reporting, haematological review and telephone back up.

Specialist reports on any 'screen' can be provided at an additional cost of £5.

Transporting samples

- Postage paid first class labels (available via the lab or website)
- Post office silver bags supplied by TDDS
- TDDS courier routes
- DX Group Service (DX6446760, Exeter, 97EX)

Please telephone us to identify the best option for you

Reporting of results

Test results can be delivered by email, fax, FTP or hard copy. TDDS have integrated VetEnvoy support and can deliver results electronically directly to your practice management software.

As a TDDS client you are able to work with our in-house IT consultant Ian Boys to implement the most appropriate processes for your practice.

Please call Ian on 01392 247914 for more information.



Direct submissions to CTDS exotics.

Note that post mortems up to 10Kg and histopathology are done at TDDS and Bridge Pathology respectively so submissions through TDDS are likely to be more efficient. The following address can be used for submitting directly to CTDS by post or silver bags:

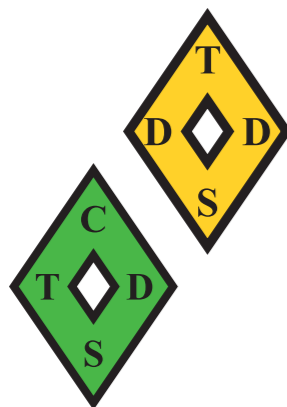
CTDS, Blacksmiths Forge, Brookfield Farm, Selby Road, Garforth, West Yorkshire, LS25 1NB
Samples picked up by TDDS couriers will be forwarded safely to CTDS exotics.

TDDS 2015 Ltd

Unit G
The Innovation Centre
University of Exeter
Rennes Drive
Exeter
EX4 4RN

Tel: 01392 247914
Path Line: 01392 247915
Fax: 01392 262354

Please send all samples to:
PO BOX 632 Exeter EX1 9JS



Terms of Business

Prices exclude VAT. TDDS charges VAT at the prevailing rate. TDDS invoices customers at the end of each month. Settlement is due within 7 days of invoice date.

Blood submitted for biochemistry is stored for 1 month and haematology, microbiology and fluids for 7 days.

TDDS provides supplies, submission forms and pre-paid submission envelope labels on request. It is the responsibility of the sender to ensure all packages sent to TDDS comply with the current Post Office regulations.

Principal Consultants

John Chitty BVet Med, Cert ZooMed, CBiol, MIBiol, MRCVS

Livia Benato DVM, MScR, CertZooMed, Dip ECZM (Small Mammals), MRCVS, RCVS and European recognised specialist in Zoological medicine (small mammals)

Nick Carmichael BVM&S, BSc VetSci(Hons), DVCS (Syd), FRCPath, Dip ECVCP, MRCVS, RCVS Recognised Specialist in Clinical Pathology

Claire Crompton BVSc, MRVCS Senior Clinical Pathologist

Andrew Torrance MA, Vet MB, PhD, DACVIM, DACVP, MRCVS, RCVS Recognised Specialist in Clinical Pathology

Francesca Pittori DVM, FRC Path, Dip ECVCP, MRCVS, Boarded Clinical Pathologist

Julie Vickers BVSc, FRCPath, Dip ACVP, MRVCS, Boarded Clinical Pathologist

Educational Mission

We educate veterinary pathologists to the highest standards available in the world. TDDS is a recognised training centre for the American College of Veterinary Pathology and new residents joining the professional diagnostic group are expected to take the American Pathology Board Examinations after four years. This ensures that there is a constant atmosphere of learning, progress and interaction. The same educational mission is embraced by all the members of the VPG.



Veterinary Pathology Group



A MEMBER OF SYNLAB



TDDS
A MEMBER OF SYNLAB



Exotics Price List 2018

John Chitty: 01264 729165

Livia Benato: 01392 250066

CTDS: 0113 2870175

TDDS: 01392 247914

www.ctdslab.co.uk

TDDS offers a high quality specialist diagnostic service for pet exotics and zoological species in conjunction with our sister laboratory CTDS exotics. Samples may be sent direct to CTDS (address on the back cover) or picked up by the TDDS couriers and safely forwarded.

Andy Torrance performs post mortem examinations on exotics and zoo species at TDDS.

CTDS exotics has an international reputation and provides laboratory services to first and second opinion practices, universities, research and wildlife institutions as well as to specialist clinicians in exotics. For first opinion practices faced with pet exotics we offer a comprehensive range of tests and specialist pathologist interpretation combined with remote reporting of radiographs and ultrasound images, practical sampling, diagnostic and therapeutic advice from our Clinical Consultants:

John Chitty BVet Med, Cert ZooMed CBiol, MIBiol, MRCVS
Livia Benato DVM, MScR, CertZooMed, Dip ECZM, MRCVS

Exotics Price List 2018

PLEASE SIGN IN
TO SEE PRICES



CTDS: 0113 287 0175

Livia Benato: 01392 250 066

John Chitty: 01264 729165

TDDS: 01392 247 914

www.tddslab.co.uk



Avian Infectious Disease/PCR	Sample	Code	£
Avian sexing PCR	FEA/H	pc4	
Bornavirus AB	H/HP	bors	
Bornavirus PCR	PS	borp	
Chlamydia psittaci qPCR	E	mt32	
Chlamydia psittaci AB	SG/HP/H	xs2	
Mycoplasma PCR	PS/T	myav	
Aspergillus fumigatus qPCR	H'/PS/T	mt17	
PBFD PCR	FEA/H/T	pc2	
Polyoma virus PCR	FEA/H/F	pc3	
Pacheco's disease PCR	FEA/F/T	pc5	
Toxoplasma AB	SG/HP	es14	

Biochemistry	Sample	Code	£
Single Biochem Test added to profile	SG/HP	eb1	
Single Biochemistry Test	SG/HP	eb1	
Bile Acid (Resting)	SG	eb9	
Beta hydroxybutyrate (BHB)	SG	eb28	
Electrophoresis (SPE)	H	eb10	
Electrophoresis (SPE) added to a profile	H	eb10+	
GSHPX/Selenium	H	xb5	
Ionised Calcium	H/HG	eb36	
Iron	SG	eb25	
Lead	E/H	xb9	
Vitamin D 25 & 1,25 OH D3	SG	xb10	
Zinc	S not gel / HP	xb8	

Cytology	Sample	Code	£
Bone Marrow Exam includes Full Blood Count	E, ADS+BM	ec7	
CSF	FE,	ec5	
Fine Needle Aspirate (up to 5 slides)	ADS	ec1	
Fluid Analysis	FE,ADS	ec2	
Miscellaneous Fluid	FE,ADS	ec11	
Synovial Fluid	FE,ADS	ec4	
Urine Cytology	FE,ADS	ec6	
Washes	FE,ADS	ec3	
Additional Cytology Slides / Per slide	ADS	ec10	
Bacteriology added to fluids	SW/FP	ec9	

Haematology	Sample	Code	£
Full Blood Count Reptile	H,SM	rh1	
Full Blood Count Mammal	E,SM	eh1	
Full Blood Count Bird	H,SM	ah1	
Full Blood Count Fish	H,SM	fh1	
Haematocrit examination	SM	hh1	
Blood film examination - small mammal	SM	eh2	
Blood film examination - exotic	SM	eh2	
Fibrinogen	E	eb2	

Key to Sample Abbreviations

F	Faeces	SW	Charcoal swab
FEA	Feather	SM	Blood smear
HP	Heparin plasma	U	Urine plain
H	Heparin	Liver	Fresh/frozen in VTM
SG	Serum gel	BC	Blood culture medium
T	Tissue	S	Serum
PS	Dry swab	O	Oxalate
E	EDTA	PSO	Oesophageal Plain Swab
HG	Heparin gel	W	Wash
BM	Bone marrow smears	NF	Nasal flush fluid
FE	Fluid EDTA	SKS	Skin scrape
FP	Fluid plain	PH	Plucked hair
ADS	Air dried smears	UB	Urine boric

Profile Design

All profiles and screens include full haematology – deduct £7 if not required. Profiles include pathologist comment where history is provided. Additional clinical consultation is available if required.

Avian screen - Full Blood Count, total protein, albumin, globulin, AST, GLDH, CK, uric acid, calcium, sodium, potassium, ionised calcium, glucose

Avian profile - Full Blood Count, total protein, albumin, globulin, AST, GLDH, ALP, GGT, CK, uric acid, calcium, ionised calcium, bile acids, sodium, potassium, cholesterol, triglycerides, glucose

Avian extended profile – Avian profile plus plasma protein electrophoresis

Histopathology	Sample	Code	£
1-3 samples (different sites)	fixed tissue	hibp	
4 samples (different sites)	fixed tissue	hib4	
5 samples (different sites)	fixed tissue	hib5	
6 samples (different sites)	fixed tissue	hib6	
7 samples (different sites)	fixed tissue	hib7	
Additional sites	fixed tissue		

Mammalian Infectious Disease/PCR	Sample	Code	£
Aleutian disease AB	SG/H	aleu	
E. cuniculi AB (IgM & IgG)	SG/H	xs14	
E. cuniculi qPCR	T/U	mt33	
Toxoplasma AB	SG/H	es14	
Myxomatosis AB	SG/H	mxy	
Treponema cuniculi AB	SG/H	tcun	
Rabbit Viral Haemorrhagic Disease antibody	SG/H	rvhd	
Rabbit Viral Haemorrhagic Disease PCR	Liver	rhdv	

Microbiology	Sample	Code	£
Aerobic culture	SW	em7	
Aerobic & anaerobic culture pathogens appropriate to site	SW	m8	
Blood culture	BC	em22	
Full faecal-mammals non primate	F	em1	
Avian Faeces 1 (culture)	F	ma1	
Avian Faeces 2 (culture, parasitology)	F	ma2	
Avian Faeces 3 (culture, para, chlamy)	F	ma3	
Reptile Faeces 1 (culture)	F	mr1	
Reptile Faeces 2 (culture, parasitology)	F	mr2	
Primate Faeces 1 (culture)	F	mp1	
Primate Faeces 2 (culture, para)	F	mp2	
Faecal Parasitology (zoo animals)	F	xm3	
Faecal Parasitology (non-zoo species)	F	em3	
Parasitology & Cryptosporidia	F	xm4	
Baermanns	F	baer	
E.coli 0157 (By direct culture)	F	o157	
E.coli 0157 (Immunomagnetic separation)	F	ecis	

Post Mortems	Sample	Code	£
Small birds, reptiles, mammals	contact lab	pom1	
Medium up to 20Kg	contact lab	pom2	
Large 20 to 60Kg	contact lab	pom3	
Please contact the laboratory before sending			

Primate Serology/Virology	Sample	Code	£
Alpha herpes virus AB	S	xs6	
Hepatitis A	S	xs11	
Hepatitis B	S	xs12	
Hepatitis C	S	xs13	

Profiles	Sample	Code	£
Avian Screen	H,Sm,HG	xs	
Avian Profile	H,Sm,HG	av2	
Avian Extended Profile	H,Sm,HG	av8	
Avian Chlamydia Profile	H,Sm,HG,F	av6	
Iron Saturation Screen	HG,SG	av7	
Rabbit Screen	E,Sm,SG,O	ms	
Rabbit Profile	E,Sm,SG,O	ra2	
Rabbit extended profile	E,Sm,SG,O	ra6	
Rabbit E. cuniculi Profile	E,Sm,SG,O	ra7	
Reptile/Lizard/Chelonian Screen	H,Sm,HG	xs	
Reptile/Lizard Profile	H,Sm,HG	r3	
Chelonian Profile	H,Sm,HG	r2	
Ferret/Small Mammal Screen	E,Sm,SG,O	ms	
Ferret/Small Mammal Profile	E,Sm,SG,O	mp	
Ferret adrenal Profile	SG	z6	
Zoo Mammal Screen	E,Sm,SG,O	ms	
Zoo Mammal Profile	E,Sm,SG,O	mp	
Ruminant/Camelid Profile	E,Sm,SG,O	z3	
Primate Screen	E,Sm,SG,O	pr1	
Primate Profile	E,Sm,SG,O	pr2	

Reptile Infectious Disease/PCR	Sample	Code	£
Adenovirus reptile PCR	PS	pc12	
Arenavirus/IBD PCR	PSO,E	pc13	
Boa/Python PCR screen (Adeno, arena, paramyxo (ferlavirus), reovirus)	PSO + E	pc16	
Chelonian Herpesvirus PCR	PS	pc8	
Chlamydia PCR (reptile/chelonian)	PS/W	pc15	
Chelonian pathogen panel PCR (herpes & M agasizii)	PS	pc11	
Chelonian respiratory profile large (herpes, M.agassizii, Picorna virus)	PS +NF	pc17	
Chytrid PCR	PS,T	pc14	
Ferlavirus (PMV) PCR	PS,T	pc18	
Mycoplasma agasizii PCR	PS	pc9	
Paramyxovirus 1&7 AB	H,HG	xs4	
Reovirus PCR	PS,T	pc19	



Reptile/lizard/chelonian screen - Full Blood Count, total protein, albumin, globulin, AST, GLDH, CK, uric acid, calcium, sodium, potassium, ionised calcium

Reptile/lizard profile - Full Blood Count, total protein, albumin, globulin, AST, GLDH, ALP, GGT, bile acids, CK, urea, uric acid, calcium, phosphorus, sodium, potassium, ionised calcium, total bilirubin, urea

Chelonian profile - Full Blood Count, total protein, albumin, globulin, AST, GLDH, ALP, GGT, bile acids, CK, urea, uric acid, calcium, phosphorus, ionised calcium, sodium, potassium, BHB

Ferret /small mammal screen- Full blood count, total protein, albumin, globulin, urea, creatinine, AST, ALT, ALP, bilirubin, calcium, glucose

Rabbit E cuniculi profile - Rabbit extended profile plus IgM & IgG E cuniculi titres

Skin/Feather/Scale	Sample	Code	£
Skin Scrape (microscopy) up to 5 slides	SKS	ed1	
Feather pulp cytology up to 5 slides	ADS	ec1	
Dermatophyte (Fungal) culture	PH	ed2	
Scrape and fungal culture	SKS,PH	ed3	
Scrape and bacteriology	SKS,PH,SW	ed7	
Scrape and fungal culture and bacteriology	SKS,PH,SW	ed4	

Urinalysis	Sample	Code	£
Full urinalysis - labstix, SG, microscopy, P:CR ratio, culture	U/UB	em2	
Full urinalysis and cytology	U/UB	m2c	
Urinalysis labstix, SG, P:CR and microscopy	U	em13	
Urinalysis labstix, SG and microscopy	U	m13p	
Urine Culture	UB/SW	em7	

Laboratory Notes

Avian and reptile haematology

We require 0.3ml of heparin blood and two good quality unstained blood smears. Please do not use EDTA as this will cause red cell lysis in some avian and reptile species. If sample volume is very limited please submit smears only to allow a greater volume to be used for chemistry (see below).

Screens and profiles

Please submit blood in a centrifuged heparin gel tube in addition to the sample in heparin and the smears. Separating the plasma immediately by centrifuging the tube after sample collection optimises sample quality and avoids in-vitro changes which can affect potassium in particular. The heparin gel tubes we supply are appropriate for measurement of ionised calcium. Screens require a minimum total blood volume of 1ml. If smaller samples are submitted electrolytes and ionised calcium will be omitted unless specifically requested.

Where available blood volume is less than 0.5 ml the haematology will consist of slide examination only, please prepare blood films, as usual and submit the remainder of the sample in heparin. This will be used for biochemical analysis only to maximise the plasma yield. If possible please prioritise the biochemical tests required for very small samples. We would normally recommend uric acid, GLDH, total protein and albumin initially with total calcium if sample volume permits.

To assist interpretation and the provision of appropriate reference intervals for results please provide the full species name e.g. Green Winged Macaw rather than Macaw.

Primate samples

When submitting any sample from primate species please clearly identify on outer packaging 'Non Human Primate Sample'.

PCR assays

For reptile and chelonian respiratory disease PCRs use pre moistened swabs only in sterilised water. Collect fluid from the nares. For all PCRs on swabs please submit these without transport medium as plain swabs. If plain tubes are not available place swab in sterile universal. For Chlamydia, faecal PCRs are most sensitive when performed on pooled faecal samples which should be submitted in a plain sterile universal container.

Assays on feathers

A number of PCR assays can be performed on material extracted from the calamus (portion of the feather shaft below the skin). For this to be successful, however, bloody tissue must be evident within the submitted feathers. Ideally 6-8 feathers from the breast containing adequate amounts of pulp are plucked and placed into a sterile universal. Where possible we recommend the submission of blood rather than feather samples.

Profile interpretation

Except for screens, where a clinical history is supplied, written interpretation of results will be provided by a clinical pathologist and/or clinical consultant. Where required, we are happy to discuss cases before sampling and additional assistance with guidance on therapy is available from our clinical consultants. Responsibility for all clinical decisions however remains with the attending veterinary surgeon.

Reference Intervals

For common species we supply reference interval data with results which have been produced by the laboratory or adapted from published data. For other species we will attempt to supply published data but we can accept no responsibility if this is not available for individual species or assays.

Telemedicine

We offer remote diagnostic services for exotics including evaluation of clinical images submitted by email or mobile phone, Xray interpretation and discussion of results produced at the practice. Please contact the lab for details of submission arrangements and fees. Radiographs may be submitted by post or as digital images. Hard copies will be returned by post.



Ferret/small mammal profile - Full blood count, total protein, albumin, globulin, urea, creatinine, AST, GLDH, ALT, ALP, GGT, bile acids, total bilirubin, calcium, phosphorus, CK, sodium, potassium, cholesterol, glucose

Ferret adrenal profile - Oestradiol, 17-OH progesterone, Androstenedione

Zoo mammal screen - Full blood count, total protein, albumin, globulin, urea, creatinine, AST, ALT, ALP, bilirubin, calcium, glucose

Zoo mammal profile - Full blood count, total protein, albumin, globulin, urea, creatinine, AST, GLDH, ALP, GGT, total bilirubin, amylase, lipase, sodium, phosphorus, CK, sodium, potassium, cholesterol, glucose

Zoo ruminant/ camelid profile - Full blood count, fibrinogen, total protein, albumin, globulin, urea, creatinine, AST, GLDH, ALT, ALP, GGT, bile acids, total bilirubin, calcium, phosphorus, magnesium, CK, sodium, potassium, cholesterol, glucose, BHB

Primate screen - Full blood count, total protein, albumin, globulin, urea, creatinine, ALT, AST, GLDH, ALP, GGT, total bilirubin, amylase, sodium, potassium, calcium, glucose

Primate profile - Full blood count, total protein, albumin, globulin, urea, creatinine, ALT, AST, GLDH, ALP, GGT, total bilirubin, amylase, lipase, sodium, potassium, calcium, phosphorus, CK, cholesterol, triglycerides, glucose