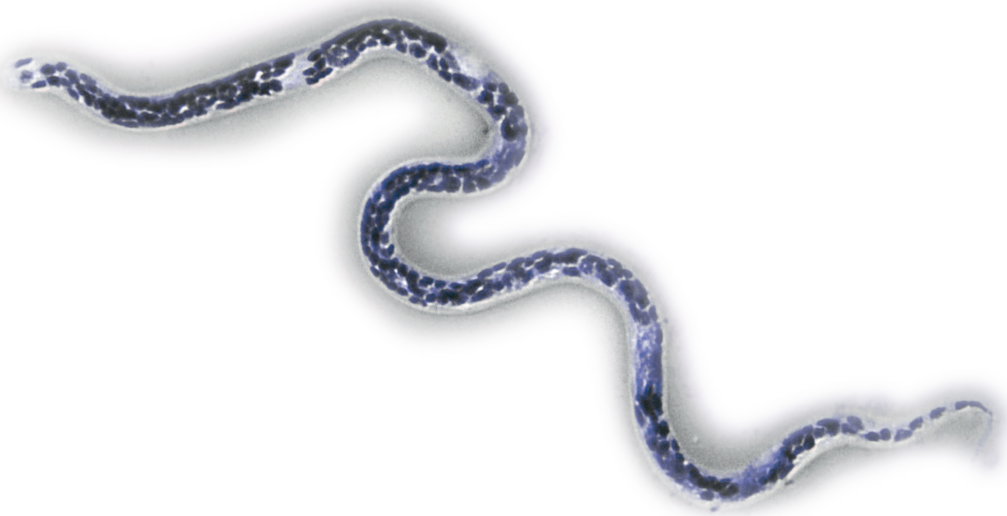
UNIVERSITY OF LIVERPOOL

Institute of Infection, Veterinary and Ecological Sciences

LIVERPOOL VETERINARY PARASITOLOGY DIAGNOSTICS (LVPD)

Price List 2025



liverpool.ac.uk/lvpd

We are the original red brick

Laboratory diagnostics at the forefront of emerging parasitic disease.

Welcome to our 2025 price list.

After a long and very successful career, Prof. Diana Willams retired from the University of Liverpool in 2024. Her leadership, innovation and mentoring had a hugely positive impact on Liverpool Veterinary Parasitology Diagnostics (LVPD), and we are enormously grateful for the pivotal stewardship she provided, over such a long period of time. She will, of course, be sorely missed by everyone, but we wish her all the best for a very long, happy and well-deserved retirement – thank you Diana!

Following Diana's retirement, we are delighted to introduce Prof. Ben Makepeace as our new Academic Lead. Ben has held the position of Chair in Vector-Borne Diseases in the Department of Infection Biology & Microbiomes since 2022. He leads a research group dedicated to the genomics, molecular epidemiology, and control of vector-borne diseases of humans and other animals, including scrub typhus and tick-borne bacteria in addition to onchocerciasis and other vector-borne helminths. He has interests in exotic parasites in the UK while maintaining a breadth of international collaborations on vector-borne and other emerging zoonoses in South-East Asia, South America, and Africa.

In response to the rise of canine brucellosis cases in the UK and the associated need for veterinary practitioners to protect themselves against potential zoonotic exposure, we have introduced a serum antibody test for *Brucella canis.* We have also expanded our testing provision for exotic pets, zoo animals and wildlife.

We pride ourselves in delivering a quality, personalised and cost-effective service supported by expert clinical advice and internationally recognised academics within the University of Liverpool's Institute of Infection, Veterinary and Ecological Sciences. This is our continuing commitment to you, and we look forward to working with your practice to provide the best in patient care.

The team

Professor Ben Makepeace
BSc (Hons), MSc, PhD

Professor of Vector-Borne Diseases

Academic Lead

Ben obtained a BSc in Biology with Oceanography from the University of Southampton, an MSc in Applied Parasitology & Medical Entomology from the Liverpool School of Tropical Medicine (LSTM), and a PhD in Molecular Microbiology from the University of Southampton. He returned to LSTM as a postdoctoral scientist in the research group of Prof. Alexander (Sandy) Trees, where he studied the immunology and chemotherapy of onchocerciasis (river blindness) in Cameroon using a cattle model; research that he has continued since attaining a full academic post in 2014. Ben transferred from LSTM to the University of Liverpool in 2008 and has held the position of Chair in Vector-Borne Diseases in the Department of Infection Biology & Microbiomes since 2022. He leads a research group dedicated to the genomics, molecular epidemiology, and control of vector-borne diseases of humans and other animals, including scrub typhus and tick-borne bacteria in addition to onchocerciasis and other vector-borne helminths. He has interests in exotic parasites in the UK while maintaining a breadth of international collaborations on vector-borne and other emerging zoonoses in South-East Asia, South America, and Africa.

Paul Gilmore
BSc (Hons), AFHEA

Research Technical Professional

Senior Diagnostic Technician

Paul has a Medical Microbiology degree from the University of Newcastle upon Tyne. Following a spell of work in the private sector, he was appointed as a diagnostic technician in Veterinary Parasitology at the Liverpool School of Tropical Medicine and subsequently the Faculty of Veterinary Science, University of Liverpool. He was trained by expert veterinary parasitologists Dr. John McGarry, Professor Diana Williams and Professor Alexander (Sandy) Trees.

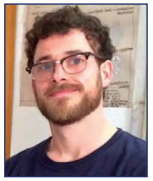
Paul went on to become a Research Technical Professional in the Institute of Infection Veterinary and Ecological Sciences (IVES), University of Liverpool in 2023 and gained Associate Fellowship of HE Advance (AFHEA) in 2024. He has a particular interest in emerging veterinary parasitic diseases across the species range.

Paul has many years' experience in diagnostic veterinary parasitology, and is responsible for the day-to-day running of the service.

Dr. John Graham-Brown BVSc, MSc, PhD, MRCVS

Lecturer

Clinical Advisor and Veterinary Associate



John is a vet and lecturer in Livestock and One Health at the University of Liverpool's School of Veterinary Science with an MSc and PhD in veterinary parasitology. He has a specific clinical and research interest in diagnostic parasitology, works predominantly with livestock but is also involved in companion animal and wildlife cases.

Dr. Alison Howell
BVSc, PhD, MRCVS

Postdoctoral Researcher

Clinical Advisor and Veterinary Associate

Alison qualified from the University of Liverpool Faculty of Veterinary Science and spent 5 years in private practice before returning to Liverpool in 2012 to do a PhD on the epidemiology of Fasciola hepatica (liver fluke). She currently works on projects aiming to improve the control of liver fluke and other parasitic and vector-borne diseases of livestock and horses..

Professor Nicholas Evans
BSc (Hons), PhD, FHEA

Professor of Veterinary Infection Biology

Consultant

Nick gained a BSc (Hons) in Biochemistry and briefly worked for a diagnostics company (Provalis) before completing a University of Manchester CASE PhD in 2004, which largely focused on Microbial Genetics/Molecular Biology/Biochemistry and included industrial placements at the National Institute for Biological Standards and Control.

Next, he joined the University of Liverpool as a Postdoctoral Researcher where he developed a keen interest in veterinary microbiology. He then gained a BBSRC 'Postdoctoral Researcher Co-Investigator' post at the School of Veterinary Science investigating host-pathogen interactions. Nick went on to be appointed as Lecturer in the University of Liverpool Department of Infection Biology in 2011 and gained a personnel chair in 2023. He leads a research group investigating spirochetal diseases.

During his PDRA posts Nick provided support for the Vetnostics service. He currently acts as a consultant for the LVPD *Borrelia burgdorferi* and *Bartonella henselae* tests, previously offered by Vetnostics.

Professor Jane Hodgkinson
BSc (Hons), PhD

Professor of Veterinary Parasitology

Supporting Scientist

Jane obtained a BSc (Hons) in Cell Biology from the University of Manchester and a PhD in Developmental Biology from King's College, London, before joining the equine parasitology group at the University of Liverpool in 1999. She was appointed Professor of Veterinary Parasitology in 2016.

Jane leads a large research programme which focuses on anthelmintic resistance and sustainable parasite control in horses, sheep and cattle. She works closely with many stakeholders within the equine sector to provide practical best practice control guidelines for horses.

Professor, the Lord Trees
BVM&S, PhD

Emeritus Professor of Veterinary Parasitology

Founder and former Academic Lead, now retired

Sandy qualified from Edinburgh's Royal (Dick) School of Veterinary Studies in 1969 and has a PhD on bovine babesiosis. In 1980 he was appointed Lecturer in Veterinary Parasitology at the University of Liverpool and became Head of the Parasite and Vector Biology Division at the Liverpool School of Tropical Medicine in 1994. He was Dean of Veterinary Science at the University from 2001 to 2008 and President of the Royal College of Veterinary Surgeons (RCVS) from 2009 to 2010, before retiring in 2011.

In 2012 Sandy became only the second ever veterinary surgeon to be appointed a life crossbench peer in the House of Lords. He was then elected an Honorary Fellow of the Royal Society of Edinburgh in 2016, and in 2019 was awarded the Queen's Medal by the RCVS. Sandy is also a Fellow of the Academy of Medical Sciences and RCVS, and in 2023, he was awarded an honorary doctorate in Veterinary Science by the University of Liverpool.

Sandy is a world expert in Veterinary Parasitology. In a distinguished career, funded by over £15 million of external grants, he has produced 140 scientific papers and made major contributions to human and animal health through his research into a variety of parasitic diseases in temperate and tropical areas.

Small animals

Dogs and Cats

Test	Requirement	Turnaround	Price	Test code
SEROLOGY				
Neospora caninum antibody (dogs only)	0.5ml serum	1-3 days	£40.00	NEO
Toxoplasma gondii IgG and IgM	0.5ml serum	2-6 days	£40.00	TOXGM
Borrelia burgdorferi antibody† (dogs only)	0.5ml serum	2-6 days	£39.00	LYME
Bartonella henselae antibody†	0.5ml serum	2-6 days	£45.00	BART
TRAVELLING PETS				
Leishmania infantum antibody (dogs only)	0.5ml serum	1-3 days	£45.00	LEISH
Dirofilaria immitis antigen (dogs only)	0.5ml serum	1 day	£42.00	HWAG
Dirofilaria immitis microfilariae detection	See note	1-2 days	£40.00	HWMF
Dirofilaria immitis – species-specific acid phosphatase staining of blood microfilariae	See note	5 days	£45.00	HWAP
Ehrlichia canis antibody (dogs only)	0.5ml serum	1 day	£45.00	EHAB
Ehrlichia canis blood screen (dogs only)	See note	1-2 days	£35.00	EHBL
Babesia canis blood screen (dogs only)	See note	1-2 days	£25.00	BAB
Brucella canis antibody (dogs only)	0.5ml serum	1 day	£32.50	BRUC
Note: 0.5ml whole blood (EDTA)/fresh (unfixed) smears. Blood should be taken from a peripheral capilliary.				
FAECAL ANALYSIS				
A full screen for roundworm eggs (e.g. *Uncinaria, Toxocara, Toxascaris, Trichuris, Strongyloides, Capillaria*) and tapeworm eggs/segments *(Dipylidium, Taenia)*	1g fresh faeces	1-2 days	£15.00	FAE1
Isospora spp. oocyst screen	1g fresh faeces	1-2 days	£15.00	ISOS
Cryptosporidium spp. screen (microscopy, ZN)	1g fresh faeces	1-2 days	£22.50	CRPMC
Cryptosporidium spp. antigen test	1g fresh faeces	1-2 days	£25.00	CRPAG
Giardia spp. screen (microscopy)	1g fresh faeces	1-2 days	£18.00	GARMC
Giardia spp. antigen test	1g fresh faeces	1-2 days	£25.00	GARAG
Tritrichomonas foetus qPCR (cats only)	1-3g fresh faeces	1-7 days	£40.00	TRI
LUNGWORMS				
Baermann*	3g fresh faeces	1 day	£17.50	LW1
Lungworm screen*	Baermannised faecal fluid sputum, bronchoalveolar lavage	1 day	£17.50	LW2
Species identification *(Angiostrongylus vasorum, Crenosoma vulpis, Oslerus osleri, Filaroides hirthi, Aelurostrongylus abstrusus)*	Preserved larvae	1 day	£35.00	LW3
*If larvae are detected, they will be identified to species level, incurring an additional charge.			£17.50	
PARASITE IDENTIFICATION				
Species identification of mature and immature nematodes and tapeworms; identification of parasites in tissue sections	Preserved specimen	1-3 days	£75.00	ID1
ECTOPARASITES				
Sample processing/species identification of mange mites e.g., *Sarcoptes, Demodex, Otodectes, Cheyletiella, Notoedres*	Suitable sample	1-3 days	£30.00	ECTO1
Identification of lice and fleas	Preserved specimen	1-3 days	£35.00	ECTO2
TICKS AND PET TRAVEL				
Identification of potential pathogen-carrying tick species found on worldwide-travelled pets	Preserved specimen	1-3 days	£45.00	TICK

† Test previously offered by Vetnostics

Rabbits, Guinea Pigs, Rats, Mice and other pets

Test	Requirement	Turnaround	Price	Test code
FAECAL ANALYSIS				
Screen for helminth eggs and parasitic protozoa	1g fresh faeces	1-2 days	£20.00	FAE2
Species identification and quantification of *Eimeria* spp. oocysts (rabbits)	3g fresh faeces	up to 1 week	£35.00	RAB
PARASITE IDENTIFICATION				
Identification of helminths	Preserved specimen	1-3 days	£75.00	ID2
ECTOPARASITES				
Sample processing/species identification of mange mites e.g., *Sarcoptes, Demodex, Otodectes, Cheyletiella, Notoedres*	Suitable sample	1-3 days	£30.00	ECTO1

Large animals

Cattle, Sheep, Goats, Pigs and Horses

Test	Requirement	Turnaround	Price	Test code
SEROLOGY				
Borrelia burgdorferi (horses only)†	0.5ml serum	2-6 days	£37.50	LYME
Fasciola hepatica antibody (horses only)*	0.5ml serum	2-6 days	£75.00	FHAB
FAECAL ANALYSIS				
Quantification of roundworm and tapeworm eggs, and coccidial oocysts	3-5g fresh faeces	1-2 days	£15.00	FAE3
Cryptosporidium spp. screen (microscopy, ZN)	1g fresh faeces	1-2 days	£22.50	CRPMC
Cryptosporidium spp. antigen test (horses, cattle, sheep, goats and pigs)	1g fresh faeces	1-2 days	£25.00	CRPAG
Giardia spp. screen (microscopy)	1g fresh faeces	1-2 days	£18.00	GARMC
Giardia spp. antigen test (horses, cattle, sheep, goats and pigs)	1g fresh faeces	1-2 days	£25.00	GARAG
Fasciola hepatica faecal egg count reduction test pre-treatment (sheep only)	See online	1-7 days	£50.00	FECRT1
Fasciola hepatica faecal egg count reduction test post-treatment (sheep only)	See online	1-7 days	£50.00	FECRT2
Dictyocaulus viviparus and *Dictyocaulus filaria* using the Baermann technique	1-3g fresh faeces	1-2 days	£30.00	DICT
Oxyuris equi eggs	Adhesive tape	1-3 days	£15.00	OXY
Sedimentation screen for *Fasciola hepatica* and rumen fluke eggs	10g fresh faeces	1-2 days	£22.50	FASC
Fasciola hepatica coproantigen test (cattle and sheep)	5g fresh faeces	2-6 days	£15.00	FHCAG
Fasciola hepatica composite faecal egg count (cattle and sheep)	10 x 10g	1-3 days	£40.00	FHCOMP
Nematode composite faecal egg count (cattle and sheep)	10 x 10g	1-3 days	£30.00	NCOMP
PARASITE IDENTIFICATION				
Identification of helminths	Preserved specimen	1-3 days	£75.00	ID3
ECTOPARASITES				
Sample processing/species identification of mange mites e.g., *Sarcoptes, Demodex, Otodectes, Cheyletiella, Notoedres*	Suitable sample	1-3 days	£20.00	ECTO1

† Test previously offered by Vetnostics

Exotic pets, zoo animals and wildlife

Test	Requirement	Turnaround	Price	Test code
FAECAL ANALYSIS				
Screen for helminth eggs and parasitic protozoa	1-3g fresh faeces	1-2 days	£25.00	FAE4
Giardia spp. antigen test (birds and reptiles)	1g fresh faeces	1-2 days	£25.00	GARAG
Cryptosporidium spp. screen (microscopy, ZN)	1g fresh faeces	1-2 days	£22.50	CRPMC
Cryptosporidium spp. antigen test (birds and reptiles)	1g fresh faeces	1-2 days	£25.00	CRPAG
Baermann screen for lungworm larvae	3g fresh faeces	1 day	£17.50	LW1
Sedimentation screen for *Fasciola hepatica* and rumen fluke eggs	10g fresh faeces	1-2 days	£22.50	FASC
PARASITE IDENTIFICATION				
Identification of helminths	Preserved specimen	1-3 days	£75.00	ID4
ECTOPARASITES				
Sample processing/species identification of mange mites e.g., *Sarcoptes, Demodex, Otodectes, Cheyletiella, Notoedres*	Suitable sample	1-3 days	£30.00	ECTO1

Additional Information

Please ensure that all samples are sent in accordance to UN3373 and P650 packaging-instruction requirements.

In addition, please note the following:

- All sample containers must be clearly labelled
- Faecal samples should be sent in a screw-cap universal container
- Slides should be clearly labelled and sent in a robust, secure container
- Do not send live specimens in the post. Use a suitable preservative and send in a screw-cap container
- Do not send CSF samples, or haemolysed or lipemic serum samples (our assays have not been validated to test these samples)
- Do not use heparin as an anti-coagulant. Use EDTA where it is a test-submission requirement
- All samples should be fresh and submitted as soon as possible
- Where serum is required, please separate whole blood. If this is not possible, then avoid sending whole blood on Fridays or Saturdays
- If samples are received in a condition unsuitable for testing, then we will request a replacement
- *Tritrichomonas foetus* qPCR faecal samples should be frozen if submission is delayed

If you are not sure of the correct way to process a sample prior to sending, then please call for guidance.

All samples should be accompanied by a **fully** completed submission form (please include all relevant details). Lack of information may delay turnaround time.

Turnaround times may vary and refer to working days.

Please contact us if you have an urgent request.

Reports are routinely sent by email.

Discounts are available for bulk samples – please contact the lab to discuss your requirements.

Prices are effective from **3rd February 2025** and are subject to change without notice.

We will consider all parasitological-related requests but please contact the lab in advance.

All submissions are kept for a minimum of seven days after results are reported and may be retained for teaching purposes.

All prices are subject to VAT at the normal rate of 20%.

If your organisation is eligible for VAT relief, please enclose the relevant exemption certificate with your submission form.

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Liverpool Veterinary Parasitology Diagnostics (LVPD)

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Hours of business:
Monday to Friday 9.00am – 5.00pm