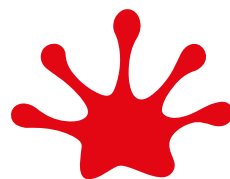


NL

Catalogue

**24
25**



SEROLOGY

ENDOCRINOLOGY

MICROBIOLOGY

PATHOLOGY

ALLERGY

PCR

GENETICS

HYGIENE



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Prices valid from 01.07.2024 until 30.06.2025

The tests offered and the prices may be subject to change.
Prices listed in EUR ex. VAT

Courier Service

We offer courier services in most regions within the European Union. In the Netherlands LABOKLIN works with PS Nachtdistributie. For more information about this service, please contact us via email or phone.

Foreword

Dear colleagues,

WHAT IS NEW?

We have been able to include some new or improved parameters in our range of tests.

- **Hormones:** In our portfolio, you will now find rT3 for supplemental testing by suspected canine hypothyroidism, as well as renin and angiotension in our new hypertension/kidney profile. For the problem mares, we have included the luteo-placental shift profile to monitor the pregnancy.
- **Oncology:** The range of biomarkers has been further expanded. BRAF mutation detection in suspected urothelial carcinoma in dogs is now also possible with BRAF comp., including additional detection of further somatic variants, which are also specific for transitional cell carcinomas of the urinary bladder.
- **Poisoning:** In addition to the detection of α -chloralose, we have established the detection of vitamin K epoxide, which is specific for coumarin-induced blocking of the vitamin K-dependent active coagulation factors formation. The test is advised in cases of suspected coumarin intoxication and for monitoring. For herbivores, we offer the detection of the toxins from sycamore, ragwort and meadow saffron.

WHAT ARE OUR SPECIAL TOOLS?

- **4Paws** is a fee free and ad-free app for pet owners for help with long-term or recurring medication, travel assistance and much more.

- The **vbd.laboklin** website is a quick reference tool when it comes to vector-borne diseases in dogs, cats or horses and for information on seasonality or regionality.

This year, we have also adjusted our prices as usual. For the first time in over 20 years, the discount scale has also been altered to account for the price increases over time.

WHAT MAKES US SPECIAL?

For 35 years, we at LABOKLIN have stood for laboratory diagnostics made by colleagues in the laboratory for colleagues in the vet practice. What drives us is old: we want to provide the best possible diagnostic assistance, as quickly as possible, of high quality and affordable. That has always remained the same – with the range of services consequently changing over the time.

Our striving for improvement is reflected in numerous projects that we are always proud to present at congresses - diverse master theses, dissertations, our own projects or research projects with other institutions. Supporting students through the Deutschlandstipendium (German scholarship) has also been a part of this for years.

Quality is our top priority: In addition to accreditation in accordance with DIN EN ISO 17025:2018 of our reference laboratory in Germany, we are a training centre for a wide range of specialist veterinary fields and have active cooperations with European colleges. Further training programmes through LABOKLIN cover the laboratory sector and are geared towards veterinarians as well as vet nurses, for whom we organise courses in the field of laboratory management and small mammal assistance.

WHERE DO WE SEE OURSELVES?

Our parent company has its roots in Lower Franconia, Germany. That is where most of our diagnostics and innovation take place. From there, we are involved in veterinary associations, in the training and further education of veterinarians, vet nurses, biology laboratory technicians and various other related professions as well as in different local projects.

The environmental responsibility concept runs through everything we do - whether it is solar thermal energy or solar power, heat recovery, electric cars or just the commitment to reusable glass bottles for drinks. And this brochure, although exceptionally printed and sent to you by post, is produced in a climate-neutral way at the local print shop.

We, the LABOKLIN team, are looking forward to continuing our cooperation with you!

With best regards from the laboratory,



Dr Elisabeth Müller
CEO LABOKLIN

Turnaround time:
same day results on
• Mon-Fri •• Mon-Sat

Profiles

		turnaround time	urea	creatinine	SDMA	α-amylase	DGGR-lipase	glucose	fructosamines	triglycerides	cholesterol	bilirubin	AP	GLDH	γ-GT	ALT	AST	CK	protein	albumin	globulins	alb/glob ratio	electrophoresis	PO ₄	Mg	Ca	Cl	Na	K	Na/K ratio	Fe	FCoV Ab	FIV Ab	U-P/C	T4	bile acids	+ complete blood count						
	Dog / Cat																																										
1006	Large Screening	••	•	•		•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•		•	•	•	•	•	•	•	•								•				
1000	Small Screening	••	•	•			•							•	•		•			•	•	•	•															•					
1208	Geriatric Profile + SDMA	••	•	•	•		•	•	•	•	•	•	•	•		•	•	•	•	•	•	•		•		•	•	•	•	•	•					•			•				
1008	Geriatric Profile + U-P/C	••	•	•			•	•	•	•	•	•	•	•		•	•	•	•	•	•	•		•		•	•	•	•	•	•				•	•				•			
6013	Large Feline Profile	2	•	•		•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	+ FeLV				•			
6003	Small Feline Profile	2																		•	•	•	•											•	•	+ FeLV							
6001	„FIP“ Screening	2											•					•		•				•										•						•			
6161	„FIP“ Monitoring	2	•	•									•	•			•			•				•	•		•	•	•	•	•	•	+ SAA							•			
1014	Pre-OP Screening	2	•	•													•			•							•	•	•	•	•									+ small blood count, PT			
1015	Anaemia Screening (Basic)	2											•							•	•	•	•									•								•			
1130	Kidney 2	2-7	•	•	•															•	•	•	•		•		•	•	•	•	•	•	+ indoxyl sulphate, FGF-23										
3001	Pancreatitis Profile	2				•	•	•		•	•	•	•			•				•	•	•	•				•	•	•	•	•	•	+ PLI								•		
1079	Intestinal Profile	3-4 2																		•	•	•	•					•	•	•	•	•	+ PLI, TLI, Vit B 12, folic acid, cortisol							•			
4001	Muscular Screening	••																•	•						•	•	•	•	•	•	•	•	+α-HBDH, LDH										
3018	Diabetes Monitoring	2-3		•			•	•	•							•	•		•									•	•	•	•	•	•	+ urinalysis, β-HBA								•	
2266	BARF Profile	4		•													•			•	•	•	•		•			•						+Cu, Zn, vit A, vit D, vit E + s. blood count		•							
3010	Epilepsy Screening	2	•					•		•	•	•	•			•	•							•			•	•	•	•	•	•	•	+Toxopl. Ab, s. blood count dog: + Neospora Ab, CRP					•				
	Small Mammals, Birds, Reptiles																																										
1004	Small Mammal Screening (large)	••	•	•				•	•	•		•	•	•	•	•	•	•	•	•				•		•	•	•	•	•									•		•		
1086	E. cuniculi Profile (large)	2	•	•				•	•	•		•	•	•	•	•	•	•	•	•			•	•		•	•	•	•	•	•	•	+ E. cuniculi IgG & IgM						•		•		
2404	Ferret Screening	••	•	•				•	•	•				•		•	•	•	•	•	•	•																		•		•	
1044	Wild hedgehog Profile	3	•	•												•			•													+ endoparasites, lungworm larvae								•		•	
1100	Avian Screening	2				•				•	•			•				•	•	•	•				•		•		•	•	•	•	+ LDH, cholinesterase, uric acid					•					
1200	Reptile Screening (large)	2	•							•	•		•	•		•	•	•	•	•				•		•		•	•	•	•	+ uric acid					•						

Turnaround time:
same day results on
• Mon-Fri •• Mon-Sat

Profiles

Profiles		turnaround time	Turnaround time: same day results on • Mon-Fri •• Mon-Sat																																		
			urea	creatinine	SDMA	DGGR-lipase	glucose	triglycerides	cholesterol	bilirubin	AP	GLDH	γ-GT	AST	CK	LDH	protein	albumin	globulins	alb/glob ratio	electrophoresis	PO ₄	Mg	Ca	Cl	Na	K	Fe	Zn	Se	Cu	SAA	Haptoglobin	β-HBA	NEFA	bile acids	+ complete blood count
7700	Large Animals Large Screening Equine/Ruminant	2-3	•	•			•	•	•	•	•	•	•	•	•	•	•	•	•		•	•	•	•	•	•	•	•	•	•						•	
7702	Large Screening Equine/Bovine + SAA	2-3	•	•			•	•	•	•	•	•	•	•	•	•	•	•	•		•	•	•	•	•	•	•	•	•	•	•					•	
7707	Ruminant Large Screening + Haptoglobin	2-3	•	•			•	•	•	•	•	•	•	•	•	•	•	•	•		•	•	•	•	•	•	•	•	•			•				•	
7500	Equine Performance Profile	2	•	•			•	•	•	•	•	•	•	•	•	•	•	•	•		•	•	•	•	•	•	•				•					•	
1080	Equine Senior Profile	2-3	•	•	•	•	•		•		•	•				•	•	•	•		•		•					•	•							•	
2528	Foal Profile	2	•	•				•				•				•				•	•	•	•		•										•		
1102	Liver 2	••	•				•		•	•	•	•	•			•	•	•	•					•	•	•									•		
7300	Ruminant Performance Profile	2-3	•						•	•		•	•			•					•	•	•	•	•	•			•	•			•	•		•	
1209	Transition Cow Profile	2	•						•	•		•	•			•	•	•	•		•	•	•	•	•	•						•	•			•	
1219	Transition Cow Profile + Haptoglobin	2	•						•	•		•	•			•	•	•	•		•	•	•	•	•	•						•	•	•		•	
7550	Downer Cow Profile	••	•										•	•		•					•	•	•														
7640	Mineral Profile I	2-3																			•	•	•		•			•	•	•							
4010	Mineral Profile II	2-4																			•	•	•	•	•	•	•	•	•	•	+ Mn						
7710	Large Screening (camelids)	2-3	•	•			•	•	•	•	•	•	•	•	•	•	•	•	•		•	•	•	•	•	•	•	•	•	•						•	
1203	Hepatic Lipidosis (camelids)	2	•				•	•	•	•	•	•	•			•	•	•	•									+ ALT					•	•	•		
4001	Muscular Screening	••											•	•	•						•	•	•	•	•	•	•										
4006	Muscular Screening extended	4											•	•	•						•	•	•	•	•	•	•		•	+ vit E							



Selection of New and Optimised Diagnostic Services for Dogs and Cats

rT3 in the diagnosis of canine hypothyroidism

- rT3 is the inactive metabolite of T4.
- Its concentration is significantly reduced in cases of hypothyroidism.
- Not reduced in cases of non-thyroidal illness syndrome.
- rT3 can be ordered as a part of the hypothyroidism/NTI profile, together with T4 and TSH or as a single parameter.

RAAS

- The new hypertension/kidney profile provides a detailed picture of the renin-angiotensin-aldosterone system (RAAS) status through the mass spectrometric analysis of frozen serum samples from dogs and cats.
- The RAAS is involved in many important diseases, including heart and kidney disease, systemic hypertension and hyperaldosteronism.
- One sample is sufficient for determining renin activity, angiotensin I & II, as well as aldosterone.

Iron metabolism profile

- This new profile allows comprehensive monitoring of iron metabolism status in dogs, cats and horses, e.g. for differential diagnosis of iron over- or undersupply origin or in anaemic diseases.
- In this profile, we determine total serum iron, relative iron saturation, as well as saturated and unsaturated iron binding capacity of the serum. Additionally, hepcidin is run as a regulatory hormone of iron metabolism, and serum ferritin as a measurement of the organism's iron stores.

Profiles in clinical chemistry

There have been some changes to our clinical chemistry profiles this year, for example:

- We have included **chloride** in all profiles in which sodium and potassium are also measured in order to better monitor the electrolyte balance. **Globulin** and **albumin-globulin ratio** are now included in the profiles in which protein and albumin are measured.

- The **large screening** can now be requested in combination with SAA (cat), CRP or T4.
- Many profiles have been supplemented with additional parameters, e.g. **epilepsy screening**.
- You will also find some **new profiles**, such as our FIP monitoring profile (which reflects the changing therapy options), thyroid monitoring (which also tests dogs and cats for heart and kidney problems). We have also added an Addison and an intestinal profile.

Highly pathogenic feline coronavirus variant FCoV-23

- In 2023, there was a severe outbreak of FIP disease in Cyprus (Attipa et al., 2023). Within 7 months, the number of PCR-confirmed cases increased more than 40-fold compared to 2022.
- Subsequent studies have identified a highly pathogenic recombinant feline/canine coronavirus proposed to be named FCoV-23. Preliminary data indicate **direct transmission** of this virus: it appears to cause FIP without requiring a change in biotype.
- Specific PCR detection of FCoV-23 can provide information about contagiousity. The test can also be requested retrospectively for samples submitted in 2023.

PCR detection of *Demodex gato*

- *Demodex (D.) gato* is a rather superficial mite with a short, squat body that lives in the stratum corneum (not in the hair follicles).
- *D. gato* is considered a primarily pathogenic parasite with high contagiousness.
- Hypersensitivity to the mites seems to lead to the fact that even a few *D. gato* can cause severe pruritus (as with sarcoptic mange in dogs).
- Demodicosis caused by *D. gato* should be included in the differential diagnoses of any cat with pruritus.
- Due to the sometimes low infestation density, we recommend performing several superficial skin scrapings.

Specific mycoplasma diagnostics in dogs

- In addition to the previous, comprehensive *Mycoplasma* spp. PCR, we have established specific PCRs for the detection of *Mycoplasma canis* and *Mycoplasma cynos*.
- *Mycoplasma canis* is primarily clinically relevant for reproduction and therefore replaces the comprehensive PCR in the reproduction profile.
- *Mycoplasma cynos* is primarily associated with respiratory diseases. Therefore, the specific detection is a new parameter in the respiratory profiles.

Neuroaxonal dystrophy (NAD) in Miniature American Shepherd

- A genetic variant in the *RNF170* gene associated with NAD has been identified in the Miniature American Shepherd.
- Affected dogs show a slowly progressive weakness of the hind limbs and coordination problems with the onset of symptoms at around two years of age.
- The most common clinical presentation is slowly progressive signs of T3-L3 myelopathy with obvious paraparesis and ataxia of the hind limbs.

Progressive retinal atrophy (GUCY2D-PRA) in German Spitz

- A genetic variant of the *GUCY2D* gene can be associated with an early form of PRA in German Spitz.
- The affected dogs already show impaired vision at the age of 3 months, both in daylight and at night. They have a pale papilla, the number of retinal blood vessels is slightly reduced, and nystagmus also occurs in some affected puppies.
- While the function of the photoreceptors is already severely impaired or even completely disrupted at the age of a few months, the retinal structure initially appears to be well preserved.

Profiles - Dog / Cat

1006 UPDATE! Large Screening NaFB+S/1ml ** α-amylase, DGGR-lipase, glucose, fructosamines, cholesterol, triglycerides, bilirubin, AP, γ-GT, GLDH, ALT, AST, CK, protein, albumin, globulins, alb/glob ratio, urea, crea, PO ₄ , Mg, Ca, K, Na, Cl, Na/K ratio, Fe + Complete Blood Count +EB/1ml+BS..... **	
1095 NEW! Large Screening + SAA NaFB+S/1ml 2 α-amylase, DGGR-lipase, glucose, fructosamines, cholesterol, triglycerides, bilirubin, AP, γ-GT, GLDH, ALT, AST, CK, protein, albumin, globulins, alb/glob ratio, urea, crea, PO ₄ , Mg, Ca, K, Na, Cl, Na/K ratio, Fe, SAA + Complete Blood Count +EB/1ml+BS..... **	
1085 NEW! Large Screening + CRP (dog) NaFB+S/1ml ** α-amylase, DGGR-lipase, glucose, fructosamines, cholesterol, triglycerides, bilirubin, AP, γ-GT, GLDH, ALT, AST, CK, protein, albumin, globulins, alb/glob ratio, urea, crea, PO ₄ , Mg, Ca, K, Na, Cl, Na/K ratio, Fe, CRP + Complete Blood Count +EB/1ml+BS..... **	
2084 Large Screening + T4 NaFB+S/1ml ** α-amylase, DGGR-lipase, glucose, fructosamines, cholesterol, triglycerides, bilirubin, AP, γ-GT, GLDH, ALT, AST, CK, protein, albumin, globulins, alb/glob ratio, urea, crea, PO ₄ , Mg, Ca, K, Na, Cl, Na/K ratio, Fe, T4 + Complete Blood Count +EB/1ml+BS..... **	
1000 UPDATE! Small Screening S/1ml ** ALT, GLDH, AP, DGGR-lipase, urea, crea, protein, albumin, globulins, alb/glob ratio + Complete Blood Count +EB/1ml+BS..... **	
6001 "FIP" Screening (cat) S/1ml 2 AST, bilirubin, protein, serum protein electrophoresis, FCoV Ab + Complete Blood Count +EB/1ml+BS..... **	
6005 NEW! FIP Screening + Coronavirus (PCR) S/1ml+AS 2-4 AST, bilirubin, protein, elektrophoresis, FCoV Ab, coronavirus PCR (qualitative)	
6161 NEW! "FIP" Monitoring S+EB/1ml+BS..... 2 complete blood count, reticulocytes, ALT, AP, bilirubin, urea, crea, K, Na, Na-K ratio, Cl, PO ₄ , Ca, protein, serum protein electrophoresis, SAA	
8859 FIP Screening/Monitoring PCR (quantitative) .. +AS 2-4 feline coronavirus (FCoV) quantitative (only available together with service 6001 or 6161)	
6002 FIV Monitoring (cat) EB+S/2ml 2 ALT, GLDH, AP, urea, crea, CD4/CD8 (sample <48h old), FIV PCR (quantitative)* (turnaround time FIV PCR: 7-14 days) + Complete Blood Count EB/3ml+S/2ml+BS..... **	

6013 UPDATE! Large Feline Profile NaFB+S/1ml 2 FCoV, FeLV, FIV + Large Screening, serum protein electrophoresis + Complete Blood Count +EB/1ml+BS..... **	
6003 UPDATE! Small Feline Profile S/1ml 2 FCoV, FeLV, FIV, protein, albumin, globulins, alb/glob ratio	
1008 UPDATE! Geriatric Profile + U-P/C NaFB+S/1ml+H ** T4, glucose, DGGR-lipase, fructosamines, cholesterol, trilycerides, ALT, GLDH, AST, AP, bilirubin, urea, crea, urine protein/crea ratio, protein, albumin, globulins, alb/glob ratio, CK, Na, K, Na-K ratio, Cl, Ca, PO ₄ , Fe + Complete Blood Count +EB/1ml+BS..... **	
1208 UPDATE! Geriatric Profile + SDMA NaFB+S/1ml ** T4, glucose, DGGR-lipase, fructosamines, cholesterol, trilycerides, ALT, GLDH, AST, AP, bilirubin, urea, crea, SDMA, protein, albumin, globulins, alb/glob ratio, CK, Na, K, Na-K ratio, Cl, Ca, PO ₄ , Fe + Complete Blood Count +EB/1ml+BS..... **	
1190 Juvenile Profile (fasted) EB+S/1ml+FA * ALT, AP, GLDH, Ca, protein, urea, crea, bile acids, PO ₄ , small blood count, endoparasites	
1015 UPDATE! Anaemia Screening Basic EB+S/1ml+BS..... 2 complete blood count, reticulocytes, Fe, protein, albumin, globulins, alb/glob ratio, bilirubin	
8030 UPDATE! Anaemia Screening Dog EB+S/1ml+BS..... 2-4 Anaemia Screening Basic + Coombs test + PCR: Anaplasma phagocytophilum, babesia (incl. species diff.), haemotropic mycoplasma (incl. species diff.)	
8033 Anaemia Screening Cat EB+S/1ml+BS..... 2-4 Anaemia Screening Basic + Coombs test + PCR: haemotropic mycoplasma (incl. species diff.)	
1082 NEW! Iron Metabolism ! S/0.5ml 3-6 Fe, ferritin, hepcidin, iron saturation, UIBC, TIBC, CRP (dog), SAA (cat)	
1014 UPDATE! Pre-OP Screening ! CP!+S+EB/1ml 2 ALT, protein, urea, crea, Na, K, Na-K ratio, Cl, Ca, small blood count, PT	
2266 UPDATE! BARF Profile (fasted) EB/1ml+S/3ml 4 ALT, crea, protein, albumin, globulins, alb/glob ratio, Ca, PO ₄ , Cu, Zn, vit A, vit D, vit E, T4, small blood count	

Please note: ! = cooled upon arrival (For further information, see p. 65, 66)

Travel Profiles / Vector-borne Diseases

2426 Canine Profile Southern Europe	EB+S/1ml	2-4
Southern Spain, Balearic/Canary Islands, Portugal, Southern France, Greece, Italy, Croatia, Turkey, Albania, Southern Romania, Bulgaria, Serbia, Bosnia (Ab: leishmania, ehrlichia, babesia, rickettsia sp. / Ag: Dirofilaria immitis / PCR: hepatozoon, microfilaria, Anaplasma platys)		
2429 Canine Profile Eastern Europe	EB+S/1ml	2-4
Poland, Czech Republic, Hungary, Ukraine, Slovakia, Northern Romania, Russia (Ab: babesia, Anaplasma phagocytophilum, rickettsia sp. / Ag: Dirofilaria immitis / PCR: microfilaria)		
2036 Canine Profile Northern/Central Europe	S/1ml	2-3
Ab: borrelia (IgG + IgM), Neospora caninum, Anaplasma phagocytophilum, babesia / Ag: Dirofilaria immitis		
2024 Canine Profile USA	EB+S/1ml	2-4
Ab: leishmania, ehrlichia, babesia, Rickettsia rickettsii / Ag: Dirofilaria immitis / PCR: hepatozoon, microfilaria, Anaplasma platys		
2032 UPDATE! Canine Profile Acute	EB+S/1ml	2-4
small blood count; Ag: Dirofilaria immitis; PCR: Piroplasmida (incl. species diff.), leishmania, ehrlichia, hepatozoon, Anaplasma platys, microfilaria		
2028 Feline Profile South/Eastern Europe	EB+S/1ml	2-4
Ab: leishmania, rickettsia, Bartonella henselae, FIV / Ag: FeLV / PCR: hepatozoon, microfilaria, piroplasmida (incl. species diff.)		
2039 UPDATE! Feline Profile Northern/Central Europe	EB+S/1ml	2-4
Ab: Bartonella henselae, rickettsia, FIV / Ag: FeLV / PCR: Anaplasma phagocytophilum, haemotropic mycoplasma (incl. species diff.)		
2038 Feline Profile Acute	EB/1ml	2-4
small blood count; PCR: Piroplasmida (incl. species diff.), Anaplasma phagocytophilum, haemotropic mycoplasma (incl. species diff.), hepatozoon		
2242 Leishmania Profile	EB+S/1ml	2
leishmania Ab (ELISA), serum protein electrophoresis, protein, crea, urea, ALT, AST, AP, GLDH, complete blood count, reticulocytes		
2243 UPDATE! Leishmania Profile + CRP + U-P/C	EB+S+H/1ml	2
leishmania Ab (ELISA), serum protein electrophoresis, protein, crea, urea, ALT, AST, AP, GLDH, complete blood count, reticulocytes + CRP + U-P/C		
2088 Vector-borne Diseases	EP,HP,S/1ml	2
Ab: borrelia, babesia, Anaplasma phagocytophilum		
8529 Microfilaria Differentiation (PCR)	EB	2-4
subsequent to positive microfilaria PCR		
9994 Export Certificate		

Vector-borne Diseases (VBDs): our Profiles

What is new?

- Climate change, increasing passenger and goods traffic in Europe as well as changes in land use have led to increasing numbers of VBDs. In 2023 in Germany, we saw an increased number of severe cases of *Babesia canis* infections in animals with no history of travelling abroad, especially in Berlin-Brandenburg region, Rhine-Main plain and Saarland.
- In dogs, infection with *Hepatozoon canis* may also occur by transplacental transmission.
- Cats are increasingly also affected by VBDs and can serve as potential pathogen reservoirs. Therefore, in cats, just as in dogs, the anamnesis should include potential stays abroad. Cats should be screened for VBDs, and if clinical signs and laboratory abnormalities may be suspicious for VBDs, precise testing by PCR and/or antibody detection should be done for individual VBDs.
- Our **Fact Sheets** provide an overview of what VBDs are found in which countries.

How have we reacted to this?

- We have adapted the range of services to the latest scientific findings.
- We have included profiles for Northern/Southern Europe for dogs and cats.

What do we offer?

- Travel profiles for dogs by region: Southern Europe, Eastern Europe, Northern/Central Europe
- Travel profiles for cats by region: Southern/Eastern Europe, Northern/Central Europe
- Acute profiles for dogs/cats with acute disease suspicious for VBDs

Why is it important to think about proper testing?

- Many VBDs, such as leishmaniasis, have zoonotic potential. Dirofilariasis is now classified as an "emerging disease".
- Our pets may act as pathogen reservoirs and contribute to the spread of VBDs.
- VBDs can cause severe diseases in our pets.

Do you need more information about VBDs?



<https://vbd.laboklin.com/en/>



Blood Profiles

618	Blood Group (serologic) (dog, cat)	EB/1ml.....**
8121	Blood Group Determination (genetic) (cat) Patent/License LABOKLIN	3-5
	analysis: allele b (all breeds except Domestic Shorthair) and allele c (Ragdoll only)	
2314	UPDATE! Blood Donor (dog).....	EB+S+NaFB+H/2ml+BS2-4
	blood group (serologic), complete blood count, reticulocytes, urea, crea, Na, K, Cl, Ca, PO ₄ , bilirubin, ALT, AP, AST, GLDH, protein, albumin, glucose, PCR: Anaplasma phagocytophilum, babesia (incl. species diff.); urinalysis	
2316	UPDATE! Blood Donor Follow-up (dog)	EB+S+NaFB+H/2ml+BS2-4
	Blood Donor (dog) without blood group	
2321	UPDATE! Blood Donor (cat)	EB+S+NaFB+H/2ml+BS2-4
	blood group (serologic), complete blood count, reticulocytes, urea, crea, Na, K, Cl, Ca, PO ₄ , bilirubin, ALT, AP, AST, GLDH, protein, albumin, glucose, FIV Ab, FeLV antigen, PCR: haemotropic mycoplasma (incl. species diff.), urinalysis	
2323	UPDATE! Blood Donor Follow-up (cat)	EB+S+NaFB+H/2ml+BS2-4
	Blood Donor (cat) without blood group	
1034	Crossmatch Test (dog, cat)	EB/1.5ml.....2
	< 48h, on demand	

Haematology / Coagulation

35	UPDATE! Complete Blood Count	EB,(HB)/1ml+BS**
	incl. differentiation and indices (dog, cat)	
1011	UPDATE! Small Blood Count	EB,HB/1ml.....**
	red blood count, indices (dog, cat), leukocytes, thrombocytes	
3040	Complete blood count + reticulocytes	EB,HB/1ml+BS2
	(dog, cat, rabbit, guinea pig)	
129	Reticulocytes	EB,HB/1ml.....2
215	Blood Smear, Cytological	EB/1ml+BS.....2
234	Blood Parasites, Microscopical	EB/1ml+BS.....2
244	Bone Marrow Cytology	KM+BS+EB/1ml3-5
	cytology (bone marrow in EDTA + max. 10 smears) + complete blood count, reticulocytes	
8816	Thrombocytopenia Profile Large (dog)	EB/1ml+BS.....2-4
	thrombocyte Ab (<72h); PCR: Anaplasma phagocytophilum, Ehrlichia canis, Anaplasma platys, babesia (incl. species diff.)	
	NEW! + Blood Smear, Cytological	EB/2ml+BS2
595	Coagulation Status !	CP/1ml2
	PT, PTT, thrombin time, fibrinogen	
592	Fibrinogen !	CP/0.5ml.....2

Please note: ! = cooled upon arrival (For further information, see p. 65, 66)

597	Factor VIII (dog) !.....	CP/0.5ml.....2
594	Factor IX (dog) !.....	CP/0.5ml.....2
446	Factor XI (cat) !.....	CP/0.5ml.....2-3
95	D-Dimers !	CP/0.5ml.....2
1191	DIC Profile !	CP!+EB/1ml+BS.....2
	PT, PTT, thrombin time, D-dimer, complete blood count, reticulocytes	
593	von Willebrand Antigen (dog) !.....	CP/0.5ml.....2
	preferably frozen	
2700	Thromboelastography (< 48 h).....	CB/2ml2

Kidney / Urine

2000	UPDATE! Kidney 1	H+S/0.5ml**
	urea, crea, SDMA, protein, albumin, globulins, alb/glob ratio, Ca, Na, K, Na-K ratio, Cl, PO ₄ , U-P/C	
1130	UPDATE! Kidney 2 (dog, cat) (fasted)	S/1ml.....2-7
	urea, crea, protein, albumin, globulines, alb/glob ratio, Na, K, Na-K ratio, Cl, Ca, PO ₄ , SDMA, indoxyl sulphate, FGF-23	
3008	UPDATE! Polydipsia/-uria	S+EB+NaFB+H.....**
	glucose, fructosamines, ALT, GLDH, AP, Na, K, Na-K ratio, Cl, Ca, protein, albumin, globulins, alb-glob ratio, urea, crea, small blood count, urinalysis	
86	FGF23 (dog, cat)	S/0.5ml2-7
460	SDMA	S,HP/0.5ml.....**
251	Indoxyl Sulphate (fasted).....	S/0.5ml6
2005	Protein/Creatinine Ratio (U-P/C)	H/1ml**
2007	Microalbumin (dog, cat).....	H/0.5ml.....2
8675	BRAF Mutation Test (V595E) (dog)	FGW,OT,HSD4-6
517	NEW! BRAF Comp. Subsequent Testing (2 CNA) (dog).....	FGW,OT,HSD.....3-8
	after negative BRAF mutation analysis (V595E)	
518	NEW! BRAF Comp. (V595E + 2 CNA) (dog)	FGW,OT,HSD3-8
163	Urinary Calculi	HS2
1600	Urine Electrophoresis	H/1mlFri
1509	Bence Jones Proteins Confirmatory Test	H/5ml5-8
	a previous urine electrophoresis is advisable	
2001	Urinalysis incl. Sediment	H/5ml**
	dog: please indicate if treated with allopurinol	

2051	NEW! Urinalysis incl. Sediment + U-P/C H/5ml•• dog: please indicate if treated with allopurinol	
1261	Urinalysis/Sediment + Bact. Culture H/6ml 3-4 dog: please indicate if treated with allopurinol	
1262	Urinalysis/Sediment + Bact. Culture (swab)... H/5ml+TM..... 3-4 dog: please indicate if treated with allopurinol	
1263	Urinalysis/Sediment + Uricult H/5ml+Uricult..... 2-4 dog: please indicate if treated with allopurinol	
161	Urine Bacteriological Culture H/1ml 3-4	
177	Uricult Analysis Uricult..... 2-4	
725	Antibiogram Aerobes (if applicable)..... fixed price.....	
2275	COLA Test (frozen) H/3ml Tue	
1192	Fanconi Screening (dog) (frozen)..... H/5ml Tue	

Liver

1001	UPDATE! Liver 1 (dog, cat)..... S/0.5ml•• ALT, AP, bilirubin total, cholesterol, urea, protein	
1102	Liver 2 (fasted) S+NaFB/1ml•• ALT, GLDH, AST, AP, γ -GT, bilirubin total, cholesterol, urea, bile acids, protein, albumin, alb/glob ratio, glucose, Na, K, Na-K ratio, Cl	
1003	Serum Protein Electrophoresis S/1ml.....2	
1128	Bile Acid Stimulation Test S/2x0.5ml••	
163	Gallstone gallstone2	

Gastrointestinal / Pancreas - Exocrine

3001	UPDATE! Pancreatitis Profile (dog, cat)..... NaFB+S/1ml2 PLI, DGGR-lipase, α -amylase, triglycerides, cholesterol, ALT, AP, bilirubin total, protein, albumin, globulins, alb/glob ratio, Na, K, Na-K ratio, Cl, Ca, glucose + Complete Blood Count +EB/1ml+BS.....••	
12	Lipase (DGGR) S/0.5ml••	
1230	PLI (dog, cat)..... S/0.5ml2	
1196	UPDATE! Vomitus Profile (fasted)..... S/0.5ml+EB/1ml+BS.....2 DGGR-lipase, AST, bile acids, protein, albumin, globulins, alb/glob ratio, urea, Na, K, Na-K ratio, Cl, complete blood count, reticulocytes	

1079	NEW! Intestinal Profile (fasted) Na, K, Na-K ratio, Cl, protein, albumin, globulins, alb/glob ratio, PLI, TLI, vit B12, folic acid, cortisol, complete blood count, reticulocytes Dog S+EB/2ml+BS.....2 Cat S+EB/2ml+BS..... 3-4	
3002	UPDATE! EPI (Exocrine Pancreas Insufficiency) (fasted) albumin, Na, K, Na-K ratio, Cl, Ca, glucose, TLI, vit B12, folic acid Dog NaFB+S/1ml2 Cat NaFB+S/1ml 3-4	
3100	TLI, B12, Folic Acid (fasted) Dog S/1ml.....2 Cat S/1ml..... 3-4	
3003	TLI (fasted) Dog S/0.5ml2 Cat S/0.5ml 3-4	
3012	Pancreatic Elastase (EIA) (dog) FA 3-4	

Epilepsy / Neurology

3010	UPDATE! Epilepsy Screening Dog (fasted) S+EB+NaFB/1ml.....2 ALT, AST, AP, biliubin, bile acids, cholesterol, triglycerides, glucose, urea, Ca, PO ₄ , Na, K, Na-K ratio, Cl, toxoplasma Ab, neospora Ab, CRP, small blood count	
3010	UPDATE! Epilepsy Screening Cat (fasted)..... S+EB+NaFB/1ml.....2 ALT, AST, AP, biliubin, bile acids, cholesterol, triglycerides, glucose, urea, Ca, PO ₄ , Na, K, Na-K ratio, Cl, toxoplasma Ab, small blood count	
8203	UPDATE! Neurology (dog) LQ/0.8ml 2-4 protein, microalbumin, IgA, CRP, TBE Ab, PCR: distemper virus, Neospora caninum, Toxoplasma gondii, Anaplasma phagocytophilum	
8500	Neurology Small (dog)..... LQ/0.5ml 2-4 protein, PCR: distemper virus, Neospora caninum, Toxoplasma gondii	
590	NEW! Neurology (cat)..... LQ/0.5ml 2-4 protein, microalbumin, cell count, PCR: coronavirus, Toxoplasma gondii, FHV, rustrela virus	
8414	UPDATE! Neurology Small (cat)..... LQ/0.2ml 2-4 PCR: coronavirus, Toxoplasma gondii, FHV, rustrela virus	

Muscle / Heart

4001 UPDATE! Muscular Screening	S/1ml	..
CK, AST, LDH, Na, K, Cl, Ca, PO ₄ , Mg, Fe, dog/cat: + α-HBDH, Na/K ratio		
4006 UPDATE! Extended Screening	S/3ml	4
Muscular Screening + vitamin E + Se		
264 Troponin I !	S/0.5ml	2
1520 pro-BNP !		
Dog	EP/0.5ml	Mon/Thu
Cat	EP/0.5ml	Tue/Fri
2213 UPDATE! Cardiac Screening !	S/1ml	2
CK, LDH, α-HBDH, AST, Ca, Mg, Na, K, Na-K ratio, Cl, troponin I		
2030 Taurine !	EP/1ml	2-6

Immunology

Immunoglobulin

749 IgA (dog)	S/0.5ml	Tue/Fri
751 IgG	S/0.5ml	2-3
750 IgM	S/0.5ml	3
1210 Immune Status (dog, cat)	EB,HB/3ml+BS	2
complete blood count, reticulocytes, T-cells, B-cells, CD4+, CD8+, ratio CD4/CD8; samples <48h old		
179 ANA Test	S,EP,HP/0.5ml	2
180 Coombs Test (direct)	EB/0.5ml	..
181 Rheumatoid Factor (Waller-Rose Test)	S/0.2ml	2
563 Acetylcholine Receptor Ab	S/1ml	2
2527 NEW! Muscle fibre type 2 - Ab*	S/1ml	8-15
masticatory muscle myositis		
8054 Thrombocyte Ab (dog, cat) (< 72h)	EB,HB/0.5ml	2
2380 Leukaemia/Lymphoma Profile (dog, cat)	Ln,EB,HB/3ml+BS	3-6
complete blood count, reticulocytes, blood smear cytological, flow cytometry; samples <48h old, PARR		
64 Leukaemia Immunophenotyping	Ln,EB,HB/2ml+BS	2-3
flow cytometry: lymphatic and/or myeloid cells; samples <48h old		
8418 Lymphocyte Clonality (PARR)	FGW,OT,FG,EB	4-6

Please note: ! = cooled upon arrival (For further information, see p. 65, 66)

Endocrinology

Adrenal Cortex

18 Cortisol	S/0.5ml	..
141 ACTH Stimulation Test (2 x cortisol)	S/2x0.5ml	..
2141 ACTH Stimulation Test extended	S/2x0.5ml	3-6
2 x cortisol, 2 x 17-OH progesterone		
142 Dexamethasone Suppression Test	S/2x0.5ml	..
low dose		
Dexamethasone Suppression Test	S/3x0.5ml	..
low dose		
143 Dexamethasone Suppression Test	S/2x0.5ml	..
high dose		
Dexamethasone Suppression Test	S/3x0.5ml	..
high dose		
183 Cortisol/Creatinine Ratio (price per sample)	MH/1ml	2
1325 Vetoryl Therapy Control (2 x cortisol)	S/2x0.5ml	..
1326 Vetoryl Therapy Control (1 x cortisol)	S/0.5ml	..
2094 Adrenal Profile (dog) !	S/0.7ml	3-6
17-OH progesterone, androstenedione, oestradiol		
1123 17-OH Progesterone	S/0.5ml	3-6
121 ACTH (endogenous) !	EP/0.5ml	2
1078 NEW! Cortisol/ACTH Ratio !	EP!+S/1ml	2
1077 NEW! Addison Profile	S/1ml	..
glucose, albumin, crea, Na, K, Na-K ratio, Cl, cortisol		
2530 Aldosterone ! (preferably frozen)	S/1ml	8
497 NEW! Hypertension/Kidney (RAAS) (frozen)	S/1ml	4-6
renin activity, angiotensin I+II, aldosterone		
3015 Androstenedione !	S/0.5ml	3-6
1322 Normetanephrine/Metanephrine* (frozen)	EP/5ml	6-9
1321 Normetanephrine/Metanephrine-Creatinine Ratio* !	H/10ml	6-9
cooled, acidified		
Pancreas - Endocrine / Diabetes mellitus		
609 Insulin (dog, cat) (fasted) !	S/1ml	2
preferably frozen		
1412 Insulin Ab* !	S/0.5ml	15-22

3018 UPDATE! Diabetes Monitoring..... NaFB+S+H/1ml.....2
glucose, fructosamines, crea, protein, β -HBA, DGGR-lipase, ALT, AST, Na, K, Na-K ratio,
Cl, urinalysis

+ Complete Blood Count +EB/1ml+BS.....**

Thyroid Gland

137 Thyroxine T4 S/0.5ml**

2148 TSH (dog, cat)..... S/0.5ml dog: **; cat: 2

126 Free T4 (fT4) S/0.5ml2

2053 Free T4 Dialysis* (frozen) S/0.5ml 11-15

127 Triiodothyronine (T3)..... S/0.5ml2

1126 Free T3 (fT3) S/0.5ml2

495 NEW! Reverse T3 (rT3)..... S/0.5ml2-6

118 Thyroglobulin Ab (TgAb) (dog)..... S/0.5ml2

2133 T4 + TSH (dog, cat)..... S/1ml..... dog: **; cat: 2

514 NEW! T4 + TSH + Reverse T3 (dog)..... S/1ml..... 2-6

2131 fT4 + TSH (dog, cat) S/1ml.....2

2130 Preventive Profile (dog)..... S/1ml.....2
fT4, TSH, Thyroglobulin Ab

2132 Preventive Profile II (dog)..... S/1ml.....2
T4, TSH, Thyroglobulin Ab

3140 TRH Stimulation Test II (2 x T4) S/2x0.5ml**

182 TRH Stimulation Test III (3 x fT4) S/3x0.5ml2

2277 TRH Stimulation Test (dog) S/3x1ml.....**
2 x T4 + 2 x TSH

2086 Thyroid Profile (dog)..... S/1.5ml 2-3
T4, fT4, T3, fT3, TSH, TgAb, T4 Ab*, T3 Ab* (T3 Ab*, T4 Ab* 10 - 21 days)

2279 UPDATE! Thyroid Profile (cat) S/1.5ml2
T4, fT4, TSH, cholesterol

516 NEW! Hypothyroidism/NTI Profile (dog)..... S/1.5ml 2-6
T4, fT4, reverse T3, TSH, cholesterol

2021 NEW! Thyroid Monitoring !..... S/1.0ml2
crea, SDMA, ALT, AP, T4, TSH, troponin I

Parathyroid

114 Parathormone (PTH) !..... S/1ml.....2
preferably frozen

1840 Parathormone related Protein (PTH-rP)* !..... EP/1ml.....11
preferably frozen

Sex Hormones / Pregnancy / Proof of Neutering (Castration/Spaying)

134 Oestradiol..... S/0.5ml2

135 Progesterone..... S/0.5ml**

136 Testosterone (dog, cat)..... S/0.5ml2

1360 HCG Stimulation Test..... S/2x0.5ml2
2 x testosterone

2212 Anti-Müllerian Hormone (AMH) !..... S/0.5ml2

Tumour Diagnostics

611 Carcino-embryonic Antigen (CEA)..... S/1ml.....2

612 Alpha-fetoprotein (AFP)..... S/1ml.....2

1038 Thymidine Kinase !..... S/0.5ml2

1509 Bence Jones Proteins Confirmatory Test..... H/5ml5-8
a previous urine electrophoresis is advisable

94 Nu.Q® (dog) (fasted) !..... EP/0.5ml2-7

1800 UPDATE! Tumour Diagnostics Small !..... S/1ml.....2
thymidine kinase, CRP (dog), SAA (cat), Ca, serum protein electrophoresis

441 UPDATE! Tumour Diagnostics Large (dog) !... S/1.5ml2
AFP, CEA, thymidine kinase, CRP, serum protein electrophoresis, AP, LDH,
Ca, vit D (25 OH)

8675 BRAF Mutation Test (V595E) (dog) FGW,OT,HSD4-6

517 NEW! BRAF Comp. Subsequent Testing (2 CNA) (dog)....FGW,OT,HSD3-8
after negative BRAF mutation analysis (V595E)

518 NEW! BRAF Comp. (V595E + 2 CNA) (dog) FGW,OT,HSD3-8

8199 c-kit Mutation (dog) (sequencing)..... GW,OT15

9986 NEW! Molecular Genetic Tumour Panel* (dog) ..15 OT,FGW22
SearchLight DNA®; incl. sample preparation and transport

Please note: ! = cooled upon arrival (For further information, see p. 65, 66)

Other Tests and Profiles

1051	IGF I (Somatomedin) !	S/0.5ml	2
1510	Erythropoietin (dog) (frozen)	S/0.5ml	Fri
1040	CRP (C-reactive protein) (dog)	S/0.5ml	**
208	Haptoglobin	S/0.5ml	2
1041	SAA (serum amyloid A)	S/0.5ml	2
2087	CPSE (prostate) (dog) !	S,EP,HP/0.5ml	2-6 preferably frozen
1194	Serotonin (dog) (fasted) !	S/0.5ml	Tue preferably frozen
1330	Behaviour Profile (dog) (fasted) !	EB+S/1ml	Tue serotonin, T4, vit B6 (serum preferably frozen)
2016	Gluten Sensitivity (dog)	S/0.5ml	6 tissue transglutaminase IgA, modified gliadin peptide IgG

Drugs / Toxicology

617	Phenobarbital	S/1ml	2
619	Bromide	S/0.5ml	5
1406	Levetiracetam	S/1ml	Tue
608	Digoxin	S/1ml	2
2085	Ciclosporin	EB/1ml	2
2011	Poison Screening*	H,(V,S,EB)/5ml	11-16 qualitative method only, written anamnesis required
548	α-Chloralose	S,H/0.5ml	3-4
511	NEW! Coumarin Activity !	S/0.5ml	3 vitamin K/vitamin K-epoxide ratio
97	Meadow Saffron (Colchicine)	H/1ml	3-4
105	Lead	EB,HB/1ml	2-3
1414	Cadmium	S/2ml	8
84	Cobalt	S,H/1ml	8
1106	Thallium (Rodenticides)	H/2ml	8
1204	Heavy Metal Toxicity Screening	S+EB/2ml+H/5ml	8 arsenic, lead, cadmium, chromium, copper, manganese, mercury, thallium, zinc

Serology

Infectious Diseases (Antibodies/Antigens)

145	Adenovirus 1 (CAV 1, HCC) (dog)	EP,HP,S/0.5ml	2
1572	Anaplasma phagocytophilum	EP,HP,S/0.5ml	2
1220	Angiostrongylus vasorum - Antigen (dog)	S/0.5ml	2
567	Aspergillus	S/0.5ml	2
1501	Aujeszky's Disease Virus (Pseudorabies) (dog)	S/1ml	4
571	Babesia (microscopical)	EB/1ml+BS	2
576	Babesia (dog, cat)	EP,HP,S/0.5ml	2
566	Bartonella henselae	EP,HP,S/0.5ml	2
5010	Bornavirus*	S/0.5ml	8
176	Borrelia (IgG + IgM)	EP,HP,S/0.5ml	2-3
833	Borrelia (blot) (dog)	HP,S/0.5ml	4
2069	Brucella canis (RSAT)	S/1ml	2-3
1166	Brucella canis (IFAT)	S/1ml	2
1147	Calicivirus (FCV) (cat)	EP,HP,S/0.5ml	2
565	Chlamydia	EP,HP,S/0.2ml	2
2508	Cryptococcus - Antigen	S/0.5ml	2-3 agglutination
610	Dirofilaria - Antigen	EP,HP,S/0.5ml	2
616	Dirofilaria - Antigen (heat pretreatment)	EP,HP,S/1ml	Thu
144	Distemper Virus (CDV)	EP,HP,S/0.5ml	2
1423	Echinococci	HP,S/0.5ml	6
572	Ehrlichia canis	EP,HP,S/0.5ml	2
2020	Encephalitozoon cuniculi (IgG)	EP,HP,S/0.5ml	2
2120	Encephalitozoon cuniculi (IgM + IgG)	EP,HP,S/0.5ml	2-3
6000	FeLV, FCoV, FIV	EP,HP,S/0.4ml	2 Ab: FCoV, FIV / Ag: FeLV
130	FeLV - Antigen	EP,HP,S/0.5ml	2
4131	Feline Coronavirus (FCoV)	AS,HP,S/0.5ml	2
133	FIV	EP,HP,S/0.5ml	2
1402	FIV blot*	S/1ml	4-8
147	Herpes-/Calicivirus (FHV, FCV) (cat)	EP,HP,S/0.5ml	2

146	Herpesvirus (CHV, FHV) (dog, cat)	HP,S/0.5ml	2
2012	Leishmania (ELISA) (dog, cat)	S/0.5ml	2
198	Leishmania (IFAT).....	EP,HP,S/0.5ml	2
157	Leptospira (MAT)	EP,HP,S/0.5ml	2
564	Listeria (Type 1 + 4b)	EP,HP,S/0.5ml	2
2017	Microfilaria (Knott test) (dog, cat)	EB/0.5ml	2
569	Neospora caninum	EP,HP,S/0.5ml	2
578	Parvovirus (CPV) (dog)	EP,HP,S/0.5ml	2
148	Parvovirus (FPV) (cat).....	EP,HP,S/0.5ml	2
1225	Rabies* (use special submission form).....	S/1ml.....	8-11
only for vaccination titer control e.g., for travelling; order can only be processed if the special submission form for rabies is used			
2079	Rickettsia conorii	EP,HP,S/0.5ml	2
2080	Rickettsia rickettsii	EP,HP,S/0.5ml	2
568	Sarcoptes (dog)	S/0.5ml	2-3
2544	Tetanus* (dog)	S/1ml.....	8
Clostridium tetani neurotoxin (Ab)			
555	Tick-borne Encephalitis V. (TBEV) (IgG).....	S/0.5ml	Tue/Fri
556	Tick-borne Encephalitis V. (TBEV) (IgM)	S/0.5ml	Tue/Fri
only serum			
557	Tick-borne Encephalitis V. (TBEV) (IgG, CSF)....	LQ/0.2ml.....	Tue/Fri
132	Toxoplasma (IgG + IgM)	EP,HP,S/0.5ml	2
2072	Trypanosoma evansi	S/0.5ml	2
2529	Vaccination Control (dog).....	EP,HP,S/0.5ml	2
distemper-, parvo-, adenovirus			
2529	Vaccination Control (cat).....	EP,HP,S/0.5ml	2
calicivirus, herpesvirus, parvovirus (panleukopenia)			

For more specific tests for equines, farm animals, small mammals, birds and reptiles see pages 40, 46, 49, 51, 52.

Single Determinations - Clinical Chemistry

Enzymes

4	ALT (GPT)	S,EP,HP/0.5ml	**
3	α-Amylase	S,EP,HP/0.5ml	**
5	AP	S/0.5ml	**
1605	AP (heat stable)	S/0.5ml	2
6	AST (GOT)	S,EP,HP/0.5ml	**
7	Cholinesterase	S,EP,HP/0.5ml	2
8	CK	S,EP,HP/0.5ml	**
10	GLDH	S,EP,HP/0.5ml	**
2236	Glutathione Peroxidase (GPx)	EB,HB/0.5ml	2
9	γ-GT	S,EP,HP/0.5ml	**
2	α-HBDH	S,EP,HP/0.5ml	**
11	LDH	S,EP,HP/0.5ml	**
12	Lipase (DGGR)	S/0.5ml	**

Substrates

63	Albumin	S,EP,HP/0.5ml	**
128	Bile Acids (fasted)	S/0.5ml	**
15	Bilirubin, Direct (II)	S,EP,HP/0.5ml	2
16	Bilirubin, Total	S,EP,HP/0.5ml	**
17	Cholesterol	S,EP,HP/0.5ml	**
607	Cholesterol (HDL)	S,EP,HP/0.5ml	2
606	Cholesterol (LDL)	S,EP,HP/0.5ml	2
23	Creatinine	S,EP,HP/0.5ml	**
3011	Fructosamines	S/1ml.....	**
20	Glucose	NaFB/1ml.....	**
107	β-HBA (β -Hydroxybutyrate).....	S/0.5ml	2
24	Lactate	NaFB/0.5ml	2
56	NEFA (free fatty acids).....	S/0.5ml	2
19	Protein	S,EP,HP/0.5ml	**

460	SDMA	S,HP/0.5ml.....	••
25	Triglycerides	S,EP,HP/0.5ml.....	••
21	Urea	S,EP,HP/0.5ml.....	••
200	Uric Acid	S,EP,HP/0.5ml.....	2

Minerals and Electrolytes

26	Calcium	S/0.5ml	••
1521	Calcium Ionised * (airtight)	S/0.5ml	3-4
27	Chloride	S/0.5ml	••
84	Cobalt	S,H/1ml	8
30	Copper	S,HP/0.5ml.....	2
2300	Iodine	S/0.5ml	Tue/Fri
28	Iron	S/0.5ml	••
31	Magnesium	S/0.5ml	••
4008	Manganese	S/0.5ml	3-4
33	Phosphate, Anorganic	S/0.5ml	••
29	Potassium (K)	S/0.5ml	••
4004	Selenium	S/0.5ml	2-3
32	Sodium (Na)	S/0.5ml	••
34	Zinc	S/0.5ml	2

Vitamins

4007	Large Vitamin Profile ! (preferably frozen)	EB,HB!+S/3ml.....	6
	vitamins A, B1, B2, B6, B12, D (25 OH), E, folic acid		
4005	Small Vitamin Profile	S/3ml.....	4
	vitamins A, D (25 OH), E, B12, folic acid		
2267	Vitamin A	S/0.5ml	4
217	Vitamin B1 ! (preferably frozen)	EB,HB/1ml.....	6
236	Vitamin B2 ! (preferably frozen)	EB,HB/1ml.....	6
238	Vitamin B6 ! (preferably frozen)	EB,HB/1ml.....	6
3004	Vitamin B12	S/0.5ml	2
2269	Vitamin D (25 OH)	S/0.5ml	2

2520	Vitamin D (1,25 OH₂)* (dog, cat)	S/2ml	8
4009	Vitamin E	S/0.5ml	4
2517	Vitamin H (Biotin)*	S/1ml.....	11
3005	Folic Acid	S/0.5ml	2

Nutrition

1504	BARF Faecal Profile	FA	4
	salmonella, yersinia, campylobacter, listeria, endoparasites (turnaround time yersinia: up to 28 days)		
2266	UPDATE! BARF Profile (fasted)	EB/1ml+S/3ml.....	4
	ALT, crea, protein, albumin, globulins, alb/glob ratio, Ca, PO ₄ , Cu, Zn, vit A, vit D, vit E, T4, small blood count		
252	Iodine/Creatinine Ratio	H/1ml	Tue/Fri
1222	Ration Check + Calculation		8
1232	NEW! Ration Check		8
1233	NEW! Ration Calculation (after ration check)		8

Please note: ! = cooled upon arrival (For further information, see p. 65, 66)

Maldigestion / Diarrhoea

Faecal Profiles

Sample: 3/4 filled faecal container

1167	Large Faecal Profile (dog, cat)..... FA	3-4
	bacteriology and mycology, salmonella, gas producers, Clostridium perfringens enterotoxin, Clostridioides difficile toxin A and B, endoparasites, giardia antigen (EIA)	
167	Small Faecal Profile (dog, cat) FA	3-4
	bacteriology and mycology, salmonella, gas producers	
1163	Combi Faecal Profile (dog, cat)..... FA	3-4
	bacteriology incl. salmonella, mycology, gas producers, endoparasites, giardia antigen (EIA), cryptosporidia antigen (EIA)	
1662	Faecal Profile Puppy/Kitten FA	3-4
	bacteriology incl. salmonella, mycology, gas producers, endoparasites, parvovirus EIA, giardia antigen (EIA)	
8168	Diarrhoea Pathogens (dog) (PCR)..... FA	2-4
	coronavirus, parvovirus, circovirus, giardia, cryptosporidia	
8168	Diarrhoea Pathogens (cat) (PCR)..... FA	2-4
	coronavirus, Tritrichomonas foetus, giardia, parvovirus, cryptosporidia	
8921	NEW! Haemorrhagic Diarrhoea (dog)..... FA	3-4
	bacteriology incl. salmonella, PCR: parvovirus, Clostridium perfringens netE/netF, pathogenic E.coli (EHEC, EPEC, ETEC)	
1290	Dysbiosis Profile (dog)..... FA	4-6
	key bacteria microbiome quantitative (PCR), mycology, calprotectin, α -1-antitrypsin, slgA, pancreatic elastase, endoparasites	
1290	Dysbiosis Profile (cat)..... FA	4-6
	key bacteria microbiome quantitative (PCR), mycology, calprotectin, α -1-antitrypsin, slgA, microscopic nutritive digestion, endoparasites	
1504	BARF Faecal Profile FA	4
	salmonella, yersinia, campylobacter, listeria, endoparasites (turnaround time yersinia: up to 28 days)	
1507	Faecal Profile Pathogenic Bacteria FA	3-4
	salmonella, yersinia, campylobacter, pathogenic E. coli (EHEC, EPEC, ETEC) (turnaround time yersinia: up to 28 days)	
8027	Human Pathogenic Causes of Diarrhoea (PCR).....FA	2-4
	salmonella, Yersinia enterocolitica, Campylobacter jejuni	

Single Determinations - Microbiology

189	Clostridioides difficile toxin A + B (EIA)..... FA	2-3
8919	NEW! Clostridioides difficile toxin A + B (PCR).....FA	2-4

News on Pathogen Diagnostics for Diarrhoea Patients

Diarrhoea diagnostics expanded to include PCR detection

- Clostridia can be associated with diarrhoea symptoms in various animal species.
- Specific toxin gene detection enables differentiation from commensal intestinal bacteria.
- PCR tests are now available for **various Clostridia toxin producers**:

Clostridioides difficile toxin A and B,
Clostridium perfringens alpha toxin,
Clostridium perfringens enterotoxin,
Clostridium perfringens netE toxin,
Clostridium perfringens netF toxin.

- In addition, we have introduced the detection of **rotavirus A** using PCR in our portfolio: These viruses are associated with sudden onset of watery diarrhoea, especially in young animals of various species.
- A PCR test for **rotavirus B** is currently in preparation and will be available in the course of 2024.

New profile for haemorrhagic diarrhoea

- Haemorrhagic diarrhoea is a well-known clinical picture in **dogs** and can have diverse causes.
- To clarify the most important factors, we have compiled a special profile.
- This new profile includes a bacteriological examination with salmonella detection and also a PCR detection of canine parvovirus, Clostridium perfringens netE/netF toxin and enteropathogenic *E. coli*.



188	Clostridium perfringens enterotoxin (EIA)..... FA	2-3
8914	NEW! Clostridium perfringens enterotoxin (PCR).....FA	2-4
8916	NEW! Clostridium perfringens alpha toxin (PCR).....FA	2-4
8915	NEW! Clostridium perfringens net E (PCR) FA	2-4
8917	NEW! Clostridium perfringens net F (PCR) FA	2-4
1508	Yersinia and Campylobacter FA	up to 28
168	Yersinia FA	up to 28
162	Campylobacter FA	3-4
230	Listeria FA,TM.....	4-5
175	Salmonella FA	3-4
383	UPDATE! Shigella FA	3-4
	incl. serological differentiation	
2177	Mycobacteria FA	2
	microscopic detection of acid-fast rods	
195	Serological Differentiation	
	if applicable, in addition to bacteriological testing	
725	Antibiogram Aerobes fixed price.....	

Virology

Sample: 3/4 filled faecal container

154	Virological Faecal Profile (EIA) (dog, cat) FA	2-4
	parvo-, rota-, coronavirus	
2172	Parvovirus (EIA) (dog, cat) FA	2
8024	Parvovirus (PCR, qualitative) (dog, cat) FA,EB	2-4
172	Rotavirus (EIA) FA	2-3
8891	NEW! Rotavirus A (PCR) FA	2-4
8025	Coronavirus, enteric (PCR) (dog) FA	2-4
8001	Coronavirus (PCR) (cat) (qualitative) FA/AS,LQ,EB.....	2-4
	sample material: in case of diarrhoea only FA	
	for more tests, see PCR assays on page 19	

Maldigestion / Malabsorption

3012	Pancreatic Elastase (EIA) (dog) FA	3-4
153	Microscopical Nutritive Digestion FA	2
61	Bile Acids (EIA) FA	Tue
	cholegenic diarrhoea	

Inflammatory / Exsudative Processes

444	Chemical Detection of Blood FA	2
290	Calprotectin (suspected IBD) FA	2
1235	α-1-Antitrypsin (EIA)..... FA	Thu
	protein losing enteropathy	
284	Secretory IgA (sIgA) (EIA)..... FA	Tue/Fri
	mucosa-associated inflammatory parameter	
724	NEW! Zonulin (EIA) FA	We
	leaky gut syndrome	

Microbiome Analysis

1290	Dysbiosis Profile (dog)..... FA	4-6
	key bacteria microbiome quantitative (PCR), mycology, calprotectin, α-1-antitrypsin, sIgA, pancreatic elastase, endoparasites	
1290	Dysbiosis Profile (cat) FA	4-6
	key bacteria microbiome quantitative (PCR), mycology, calprotectin, α-1-antitrypsin, sIgA, microscopic nutritive digestion, endoparasites	
1291	Dysbiosis Analysis (dog, cat) FA	4-6
	key bacteria microbiome quantitative (PCR)	

Parasitology

Endoparasites

Sample: 3/4 filled faecal container

149	Endoparasites (flotation and SAFC) FA	*
1187	Endoparasite Profile (dog, cat)..... FA	2
	endoparasites, giardia antigen (EIA)	
1162	Large Feline Endoparasite Profile FA	2-4
	endoparasites, giardia antigen (EIA), PCR: Tritrichomonas foetus	
585	Baermann Test (lungworm larvae) FA	3
436	Endoparasites + IFAT FA	2
	endoparasites, Giardia IFAT, Cryptosporidia IFAT	
8261	Angiostrongylus vasorum (PCR) (dog) EB,BAL,FA.....	2-4
8898	NEW! Capillaria aerophila (PCR) FA,BAL.....	2-4
8524	Crenosoma vulpis (PCR) FA,BAL.....	2-4
8824	Aelurostrongylus abstrusus (PCR)..... FA,BAL.....	2-4
8828	Troglostrongylus brevior (PCR)..... FA,BAL.....	2-4

8789	UPDATE! Lungworm Profile Dog (PCR).....	FA,BAL.....	2-4
	Angiostrongylus vasorum, Crenosoma vulpis, Capillaria aerophila		
8790	UPDATE! Lungworm Profile Cat (PCR).....	FA,BAL.....	2-4
	Aelurostrongylus abstrusus, Troglostrongylus brevior, Capillaria aerophila		
185	Giardia sp. - Antigen (EIA).....	FA.....	2
8340	Giardia (PCR).....	FA.....	2-4
187	Cryptosporidia - Antigen (EIA) (mammals).....	FA.....	Mon/Wed/Fri
8416	Cryptosporidia (PCR).....	FA.....	2-4
8103	Toxoplasma gondii (PCR).....	FQ/LQ.....	2-4
8999	Tritrichomonas foetus (PCR).....	FA.....	2-4

Ectoparasites

Tests for skin / hair, see page 18

Microbiology

Swab / Aspirate

156	Bacteriology (aerobic) + Mycology	TM,GW.....	3-8
1061	Bacteriology (aerobic + anaerobic).....	TM,GW.....	3-8
150	Bacteriology (aerobic).....	TM,GW.....	3-4
165	Bacteriology Anaerobes	TM,GW.....	8
2151	Mycology	TM,GW.....	3-8

Skin / Hair

1157	Bacteriology + Mycology + Ectoparasites	HA,HT,K+TM.....	3-22
1156	Bacteriology (aerobic) + Mycology	HA,HT,K+TM.....	3-22
150	Bacteriology (aerobic).....	HA,HT,K,TM.....	3-4
151	Mycology	HA,HT,K.....	3-22
	dermatophytes and yeasts		
8489	UPDATE! Dermatophytes (PCR).....	HA,HT,K.....	3-5
	incl. species differentiation		
2109	Trichogram	HA.....	2
174	Ectoparasites	HA,HT.....	2

Microbiology at LABOKLIN

- Validation of results and case discussions by veterinarians specialised in microbiology and clinical laboratory diagnostics as well as by veterinarians with extensive experience in microbiology
- Use of organ-specific culture media and incubation conditions, e.g. the incubation of fish cultures at lower temperatures depending on the season
- Rapid and exact differentiation of the pathogens detected using the MALDI-TOF technique



Growth on selective culture medium

- Creation of antibiograms using the microdilution method and evaluation according to international standards specifically developed for veterinary medicine (CLSI)
- Specific antibiograms for companion animals (reported according to the Dutch formulary), large animals, small mammals, birds, reptiles, fish, and mastitis
- Antibiograms specifically for strictly anaerobic bacteria
- Susceptibility testing of Malassezia and other yeasts (antimycograms); efficacy testing of essential oils (aromatograms)



MALDI-TOF (bacteriological identification)



Antibiograms - microdilution method

Sample Turnaround time

- 8577 **Demodex spp.** (dog, cat, semi-quantitative) (PCR) . HT 2-4
- 8866 **NEW! Demodex gatoi** (cat) (PCR) HT,(HA) 2-4
- 8178 **Sarcoptes scabiei** (PCR) HT 2-4

Urine

- 1261 **Urinalysis/Sediment + Bact. Culture** H/6ml 3-4
dog: please indicate if treated with allopurinol
- 1262 **Urinalysis/Sediment + Bact. Culture** (swab) ... H/5ml+TM 3-4
dog: please indicate if treated with allopurinol
- 1263 **Urinalysis/Sediment + Uricult** H/5ml+Uricult 2-4
dog: please indicate if treated with allopurinol
- 161 **Urine Bacteriological Culture** H/1ml 3-4
- 177 **Uricult Analysis** Uricult 2-4

Sensitivity Testing

Antibiograms are performed automatically and charged at a fixed price if aerobic isolates from bacteriological cultures are clinically relevant. If this is not desired, please note this on the test order (no. 2202 on the print submission form or no. 220200 on the online submission form).

- 725 **Antibiogram Aerobes** fixed price 3-6
- 727 **Antibiogram Anaerobes** fixed price 3-6
- 1919 **Antimycogram Yeasts** 3-6
- 1071 **Aromatogram Bacteria** 3
- 1072 **Aromatogram Yeasts** 3-8
- 1640 **Analysis on Multidrug-resistant Bacteria** 4xTM 4-5
MRSA, VRE, ESBL, carbapenemase producing bacteria (TM1: nasal-buccal; TM2: skin (axle or groin) or conjunctiva; TM3: dog basket + feeding dish + floor; TM4: rectal)
- 2217 **MRSA Differentiation** 4-5
in addition to bacteriological testing
- 2210 **MRSP Differentiation** 4-5
in addition to bacteriological testing
- 2218 **ESBL Differentiation** 4-5
in addition to bacteriological testing

Special Microbiological Tests

- 2410 **Nocardia/Actinomyces** TM 9-11
- 110 **Blood Culture** 8-11
aerobes and anaerobes
- 2508 **Cryptococcus - Antigen** S/0.5ml 2-3
agglutination

Sample Turnaround time

Autovaccine

In addition to bacteriological testing. Please send a **veterinary prescription** together with your order. Delivery time to your veterinary home pharmacy is about 3 weeks.

- 1553 **Injection Vaccine** 22
chronic skin/ear infections (+ 24.00 Euro shipping fee)
- 1551 **Oral Vaccine** 22
chronic diarrhoea (+ 24.00 Euro shipping fee)
- 1554 **Vaccine for Inhalation** 22
chronic respiratory infections (+ 24.00 Euro shipping fee)
- 1552 **Combination Vaccine** 22
chronic urogenital infections (+ 24.00 Euro shipping fee)

PCR Assays

- 8824 **Aelurostrongylus abstrusus** FA,BAL 2-4
- 8904 **NEW! Alongshan Virus** GW,Z,EB 2-4
- 8182 **Anaplasma phagocytophilum** EB,LQ,KM,SV,Z 2-4
- 8236 **Anaplasma platys** EB,Z 2-4
- 8261 **Angiostrongylus vasorum** (dog) EB,BAL,FA 2-4
- 8019 **Babesia** (Piroplasmida) EB,Z 2-4
also determines cytauxzoon, theileria; incl. species diff.
- 8076 **Bartonella henselae** EB,FL,LQ 2-4
- 8162 **Bordetella bronchiseptica** A,BAL 2-4
- 8343 **Bornavirus** (mammals) LQ,EB 2-4
- 8010 **Borrelia** HT,LQ,SV,Z 2-4
- 8351 **Brucella canis** A,EB,Sp,H,AM 2-4
- 8589 **Campylobacter jejuni** FA 2-4
- 8398 **Canine Adenovirus 1** (CAV-1) (HCC) EB,H,L 2-4
- 8095 **Canine Adenovirus 2** (CAV-2) A 2-4
- 8025 **Canine Enteric Coronavirus** (CCoV) FA 2-4
- 8766 **Canine Respiratory Coronavirus** (CRCoV) A 2-4
- 8003 **Canine Distemper Virus** (CDV) (qualitative) A,EB,LQ,H,FA 2-4
- 8085 **Canine Distemper Virus** (CDV) (quantitative) A 2-4
- 8509 **Canine Herpesvirus** (CHV) A,AM,EB 2-4
- 8096 **Canine Parainfluenza Virus** (CPIV) A 2-4

8024	Canine Parvovirus (CPV) (qualitative)	FA,EB	2-4
8084	Canine Parvovirus (CPV) (quantitative)	FA	2-4
8898	NEW! Capillaria aerophila	FA,BAL	2-4
8004	Chlamydia	A,FA,AM	2-4
8919	NEW! Clostridioides difficile toxin A + B	FA	2-4
8916	NEW! Clostridium perfringens alpha toxin	FA	2-4
8914	NEW! Clostridium perfringens enterotoxin	FA	2-4
8915	NEW! Clostridium perfringens net E	FA	2-4
8917	NEW! Clostridium perfringens net F	FA	2-4
8161	Circovirus (dog)	FA,EB	2-4
8524	Crenosoma vulpis	FA,BAL	2-4
8416	Cryptosporidia	FA	2-4
8787	Cytauxzoon (Piroplasmida) also determines babesia, theileria; incl. species diff.	EB,Z	2-4
8577	Demodex spp. (dog, cat) (semi-quantitative)	HT	2-4
8866	NEW! Demodex gatoi (cat)	HT,(HA)	2-4
8489	UPDATE! Dermatophytes incl. species differentiation	HA,HT,K	3-5
8724	Echinococcus multilocularis/granulosus	FA,GW	2-4
8181	Ehrlichia canis	EB,KM,Z	2-4
8895	FCoV-23	AS,LQ,EB	3-5
8044	Feline Calicivirus (FCV)	A,EB	2-4
8001	Feline Coronavirus (FCoV) (qualitative)	FA/AS,LQ,EB	2-4
8282	Feline Coronavirus (FCoV) (quantitative)	FA,AS,EB	2-4
8009	Feline Herpesvirus (FHV)	A,AM,EB	2-4
8820	Feline Morbillivirus (FeMV) ! preferably frozen	H	2-4
8024	Feline Parvovirus (FPV) (qualitative)	FA,EB	2-4
8043	FeLV Provirus	EB,KM	2-4
8268	FIV Provirus	EB	2-4
8078	FIV Provirus (quantitative)*	EB	8-15
8340	Giardia	FA	2-4
8329	Helicobacter spp.	V	2-4
8089	Hepatozoon canis/felis	EB,Z	2-4
8223	Influenza A Virus (mammals)	A	2-4

8008	Leishmania (qualitative)	A,KM,Ln,HT,EB	2-4
8234	Leishmania (dog, quantitative)	EB,KM	2-4
8031	Leptospira	H+EB,AM	2-4
8101	Microfilaria (qualitative)	EB	2-4
8529	if positive: Differentiation	EB	2-4
8083	Microfilaria (dog, quantitative)	EB	2-4
	Mycoplasma (mucous membrane)		
8884	NEW! Mycoplasma canis (dog)	A,AM	2-4
8886	NEW! Mycoplasma cynos (dog)	A,BAL	2-4
8082	Mycoplasma felis (cat)	A,AM	2-4
8097	Mycoplasma spp. (dog)	A,AM,BAL	2-4
	Mycoplasma (haemotropic)		
570	dog (incl. species differentiation)	EB	2-4
8511	cat (incl. species differentiation)	EB	2-4
8052	Neoehrlichia mikurensis	EB,Z	2-4
8029	Neospora caninum	FA/LQ	2-4
8190	Papillomavirus (dog, cat)	HT	2-4
8055	Poxvirus (Orthopoxvirus)	K	2-4
8455	Rickettsia	Z,EB,HT	2-4
8891	NEW! Rotavirus A	FA	2-4
8822	Rustrela Virus (RusV) material: preferably brain, if necessary cerebrospinal fluid	GW,LQ	2-4
8060	Salmonella	FA	2-4
8178	Sarcoptes scabiei	HT	2-4
8545	SARS-CoV-2 all animal species, particularly cat, ferret, hamster; deep nasal/pharyngeal swab	A,BAL	2-4
8021	Tick-borne Encephalitis Virus (TBEV)	LQ,S,Z	2-4
8103	Toxoplasma gondii	FA/LQ	2-4
8999	Tritrichomonas foetus	FA	2-4
8828	Troglostrongylus brevior	FA,BAL	2-4
8588	Yersinia enterocolitica	FA	2-4

Tissue samples are also suitable for PCR assays, depending on the pathogen distribution.

For more PCR assays for equines, farm animals, small mammals, birds, reptiles and bees,
see pages 40, 46, 50, 51, 53, 55

PCR Profiles

Dog

8339 Anaemia Small (dog).....	EB.....	2-4
Anaplasma phagocytophilum, babesia (incl. species diff.)		
8074 Anaemia Vector-borne (dog).....	EB.....	2-4
haemotropic mycoplasma (incl. species diff.), babesia (incl. species diff.), Ehrlichia canis, Anaplasma phagocytophilum		
8168 Diarrhoea Pathogens (dog).....	FA.....	2-4
coronavirus, parvovirus, circovirus, giardia, cryptosporidia		
8921 NEW! Haemorrhagic Diarrhoea (dog).....	FA.....	3-4
bacteriology incl. salmonella, PCR: parvovirus, Clostridium perfringens netE/netF, pathogenic E.coli (EHEC, EPEC, ETEC)		
8580 Eye (dog).....	A.....	2-4
CHV, chlamydia, mycoplasma		
8789 UPDATE! Lungworm (dog).....	FA,BAL.....	2-4
Angiostrongylus vasorum, Crenosoma vulpis, Capillaria aerophila		
8203 UPDATE! Neurology (dog).....	LQ/0.8ml.....	2-4
protein, microalbumin, IgA, CRP, TBE Ab, PCR: distemper virus, Neospora caninum, Toxoplasma gondii, Anaplasma phagocytophilum		
8500 Neurology Small (dog).....	LQ/0.5ml.....	2-4
protein, PCR: distemper virus, Neospora caninum, Toxoplasma gondii		
8165 UPDATE! Reproduction (dog).....	A,AM.....	2-4
CHV, chlamydia, Mycoplasma canis, Brucella canis		
8163 UPDATE! Respiratory I (dog).....	A,BAL.....	2-4
CHV, CAV-2, CPiV, CRCoV, distemper virus, Bordetella bronchiseptica, Mycoplasma cynos		
8769 UPDATE! Respiratory II (dog).....	A,BAL.....	2-4
CPiV, CRCoV, Bordetella bronchiseptica, Mycoplasma cynos		

Cat

8168 Diarrhoea Pathogens (cat).....	FA.....	2-4
coronavirus, Tritrichomonas foetus, giardia, parvovirus, cryptosporidia		
8338 Eye (cat).....	A.....	2-4
FHV, chlamydia, Mycoplasma felis		
8515 Flea (cat).....	EB,FL.....	2-4
haemotropic mycoplasma (incl. species diff.), rickettsia, Bartonella henselae		
8790 UPDATE! Lungworm (cat).....	FA,BAL.....	2-4
Aelurostrongylus abstrusus, Troglostrongylus brevior, Capillaria aerophila		
590 NEW! Neurology (cat).....	LQ/0.5ml.....	2-4
protein, microalbumin, cell count, PCR: coronavirus, Toxoplasma gondii, FHV, rustrela virus		

8414 UPDATE! Neurology Small (cat).....	LQ/0.2ml.....	2-4
coronavirus, Toxoplasma gondii, FHV, rustrela virus		
8165 Reproduction (cat).....	A,AM.....	2-4
FHV, chlamydia, Mycoplasma felis		
8169 Respiratory I (cat).....	A,BAL.....	2-4
FCV, FHV, chlamydia, Mycoplasma felis, Bordetella bronchiseptica		
8087 Respiratory II (cat).....	A.....	2-4
FCV, FHV, chlamydia, Mycoplasma felis		
8167 Respiratory III (cat).....	A.....	2-4
FCV, FHV, chlamydia		
8045 Respiratory IV (cat) (FCV, FHV).....	A.....	2-4

Tissue samples are also suitable for PCR assays, depending on the pathogen distribution.

Additional

8064 Tick 1 (borrelia, TBE virus).....	Z.....	2-4
8065 Tick 2	Z.....	2-4
Anaplasma phagocytophilum, piroplasmida (babesia, cytauxzoon, theileria; incl. species diff.), borrelia, TBE virus		
8035 Tick 3	Z.....	2-4
Anaplasma phagocytophilum, Anaplasma platys, piroplasmida (babesia, cytauxzoon, theileria; incl. species diff.), borrelia, Ehrlichia canis, hepatozoon		
8466 Tick 4	Z.....	2-4
Anaplasma phagocytophilum, piroplasmida (babesia, cytauxzoon, theileria; incl. species diff.), borrelia, TBE virus, rickettsia		

For more PCR profiles for horse, farm animal, small mammal and reptile, see pages 41, 47, 50, 51, 54

Please note: ! = cooled upon arrival (For further information, see p. 65, 66)

Laboratory Diagnostics in Oncology

Immunophenotyping

of blood and lymph node aspirates

- leukaemia classification, individual profile if applicable
- leukaemia/lymphoma profiles

Genetic detection

- PARR (dog, cat): lymphocyte clonality
- BRAF/ BRAF comp. (dog): urothelial carcinoma (prostate carcinoma)
- c-kit mutation (dog): mast cell tumour
- molecular genetic tumour analysis (SearchLight DNA®) (dog): analysis of tumour genome
- RCND: predisposition for renal carcinoma & dermatofibrosis in German Shepherd

Tumour markers

- thymidine kinase (TK-1)
- carcinoembryonic antigen (CEA)
- alpha-fetoprotein (AFP)
- Nu.Q®

Cytology

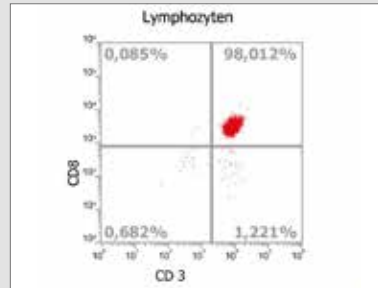
- tumour cells
- tumour histogenesis/malignancy if applicable

Histology

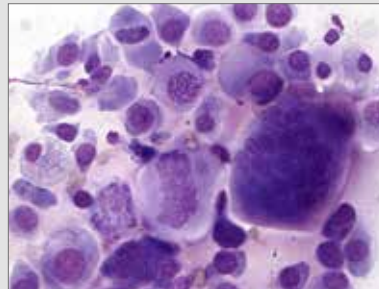
- tumour diagnosis
- tumour grading, if applicable
- evaluation of resection margins

Immunohistology

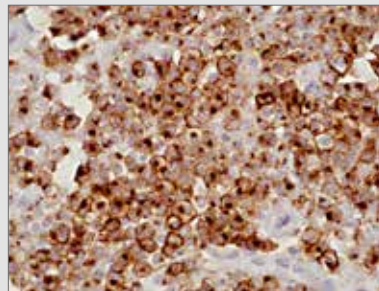
- specific tumour differentiation



Immunophenotyping, flow cytometry



Cytology, fibrosarcoma



Immunohistology mast cell tumour dog: c-KIT expression

Pathology

Histology / Immunohistology

- 201 Histopathology** (per clinical question) FGW 4-8
tumours (up to 2 sites), skin punches, uterus biopsies, organ biopsies up to 3 sites
- 2209 Histopathology** (requiring increased effort) FGW 4-8
e.g. toe, entire organs (e.g. spleen, testicle), 3 - 5 mammary complexes, biopsies from 4 - 6 organs, detailed assessment of surgical margins
- 209 Immunohistology** 6-8
following histopathology; up to 3 markers, e.g.:
- CD3/CD20 (lymphoma),
- Ki-67, c-kit (mast cell tumour)

Cytology

- 204 Cytology** OT,FG 2-4
e.g. one site: up to 4 smears, 1x fluid/lavage plus 2 smears
- 2604 Cytology** (requiring increased effort) OT,FG 2-4
e.g. one site: 5-6 smears, two sites up to 4 smears each, fluids including more than 2 smears or multiple fluids
- 244 Bone Marrow Cytology** KM+BS+EB/1ml 3-5
cytology (bone marrow in EDTA + max. 10 smears) + complete blood count, reticulocytes
- 205 Thorax, Abdomen** OT+FG/2ml 2-4
cytology, total protein, cell count, Rivalta's test (cat), cholesterol, triglycerides, LDH, glucose, albumin/globulin
- 206 Cerebrospinal Fluid (CSF)** (OT+)LQ/0.7ml 2-4
cytology, total protein, cell count, glucose
- 207 Synovia** OT+SV/1ml 2-4
cytology, total protein, cell count
- 293 BAL Profile** (dog, cat) TM+OT+BAL/1ml 3-8
cytology, bacteriology, mycology, mycoplasma PCR

Additional Tests

- 8418 Lymphocyte Clonality** (PARR) FGW,OT,FG,EB 4-6
- 8675 BRAF Mutation Test** (V595E) (dog) FGW,OT,HSD 4-6
- 517 NEW! BRAF Comp. Subsequent Testing** (2 CNA) (dog) ...FGW,OT,HSD 3-8
after negative BRAF mutation analysis (V595E)
- 518 NEW! BRAF Comp.** (V595E + 2 CNA) (dog) FGW,OT,HSD 3-8
- 8199 c-kit Mutation** (dog) (sequencing) GW,OT 15
- 9986 NEW! Molecular Genetic Tumour Panel*** (dog) .. 15 OT,FGW 22
SearchLight DNA®; incl. sample preparation and transport

Allergy Testing at LABOKLIN

including differential diagnosis of cases on demand

A complete range of tests for dogs and cats

Allergy testing for **environmental allergens** – Fcε-receptor test:

- Affordable step-by-step diagnostics: screening and main tests
- Rare allergens: feathers, hair, insects, hymenoptera, etc.
- Seasonal allergens with CCD blocking (cross reactive carbohydrate side chains)
- Region/country-specific profiles available (e.g., Nordic)

Clinically evaluated **food allergen tests**:

- IgE and IgG against food components: general, extended and exotic allergens (lists available at www.laboklin.nl/dermatologie-en-allergie)
- Microarray technology: low sample volume, high reliability (each allergen is tested in triplicate)

Pruritus profiles: individual previously mentioned tests in combination.

PAX complete (environmental allergens and/or food allergens): allergy test with recombinant allergens.

ASIT for dogs, cats and horses

- Allergen-specific immunotherapy (ASIT, hyposensitization)
- Registered veterinary therapy via Artuvet



Evaluation of a microarray (allergy test)

Especially for horses

- Screening and main tests (seasonal and perennial allergens, insects)
- Food allergy testing
- Pruritus and respiratory profiles
- PAX complete (environmental allergens and/or food allergens): allergy test with recombinant allergens.
- ASIT including insects

Fast results

- Allergy testing 3-8 days
- ASIT 2-3 weeks

Consultations

- On your allergy and dermatology cases
- By our allergy team with experienced dermatologists

Comprehensive service for all areas of expertise

Additional testing at the lab and consultations in connection with

- Infectious disease diagnostics (serology, PCR, microbiology)
- Pathology
- Hereditary diseases (PCR)

Allergy

Allergy Profiles

7140	Pruritus Profile - Small (dog)..... S/2.5ml	3
	Allergy Screening Test, sarcoptes Ab	
7141	Pruritus Profile - Medium (dog, cat)..... S/2.5ml	3-8
	Seasonal and Perennial Panels, Food Allergens Basic and Food Allergens Extended	
7143	Pruritus Profile - Large (dog)..... S/3.5ml	3-8
	Seasonal and Perennial Panels, Food Allergens Basic, Food Allergens Extended, sarcoptes Ab, flea saliva	
7136	Food Allergen Profile (dog, cat)..... S/1.5ml	8
	Food Allergens Basic, Food Allergens Extended and Food Allergens Exotic	
7155	Nordic Allergy Profile (dog, cat)..... S/2.5ml	3-8
	flea saliva, malassezia, mites and moulds, as well as pollen from northern grasses, weeds and trees; incl. CHO test and CCD blocking as needed	

Screening Test

7105	Allergy Screening Test S/2ml	3
	mites, pollen, moulds, flea saliva	

Main Tests

7106	Seasonal Panel S/1ml.....	3
	grasses, weeds, tree pollen; incl. CHO test and CCD blocking as needed	
7107	Perennial Panel (moulds, mites)..... S/0.5ml	3
7116	Feathers/Hair/Epithelia S/0.5ml	8
	cat, dog, rabbit, guinea pig, parrot, feather mix	
7130	Insect Panel S/0.5ml	8
	deerfly, gnat, mosquito, horse fly, stable fly, cockroach	
7124	Hymenoptera* S/0.5ml	11
	bee, wasp, hornet, paperwasp; incl. CHO test and CCD blocking as needed	
7122	Mediterranean Panel S/2ml	8
	grasses, weeds, tree pollen, moulds, mites; incl. CHO test and CCD blocking as needed	
6103	Flea Saliva (IgE)..... S/0.5ml	3
7117	Malassezia (IgE)..... S/0.5ml	8
568	Sarcoptes Ab (IgG) (dog)..... S/0.5ml	2-3
6104	Staphylococcus Ab (IgG)..... S/0.5ml	2

Additional Tests

7108	Food Allergens Basic (dog)..... S/0.5ml	3
	IgE and IgG against commonly used food ingredients	
7108	Food Allergens Basic (cat)..... S/0.5ml	3-5
	IgE and IgG against commonly used food ingredients	

7125 Food Allergens Extended (dog)..... S/0.5ml 8 IgE and IgG against horse, ostrich, kangaroo, wild boar, reindeer, amaranth, millet, parsnip	
7125 Food Allergens Extended (cat)..... S/0.5ml 8 IgE and IgG against horse, ostrich, red deer, rabbit, wild boar, reindeer, amaranth, millet	
7128 Food Allergens Exotic (dog, cat)..... S/0.5ml 8 IgE and IgG against trout, goat, camel, buffalo, quail, hermetia/insect, sweet potato, sunchoke, buckwheat, bean, carrot, pumpkin, zucchini, pea, yeast	
1222 Ration Check + Calculation 8	
1232 NEW! Ration Check 8	
1233 NEW! Ration Calculation (after ration check) 8	

PAX (Dog / Cat)

7020 NEW! PAX Complete (Environmental)..... S/0.5ml 3-5	
7021 NEW! PAX Complete (Food)..... S/0.5ml 3-5	
7022 NEW! PAX Complete (Environmental + Food)..... S/0.5ml 3-5	

Allergen-specific Immunotherapy (ASIT; Hyposensitization)

Please send a **veterinary prescription** together with your order.
The prescription is mandatory for us to be able to deliver your order!

6511 Artuvetrin® 1-4 allergens (dog, cat)14-21 sufficient for 10 months; shipping fee included	
6512 Artuvetrin® 5-8 allergens (dog, cat)14-21 sufficient for 10 months; shipping fee included	

Genetics - Dog

Hereditary Diseases

(sample material: 0.5 - 1 ml EDTA blood, buccal swabs)

Auditory

8875 NEW! Hereditary deafness (DINGS1&2) 7-14 Dobermann	
8269 Hereditary deafness (EOAD) 7-14 Beauceron, Rhodesian Ridgeback, Rottweiler	

Cardiologic

8543 Cardiomyopathy with juvenile mortality (CJM) 3-14 Belgian Shepherd	
8363 Dilated cardiomyopathy (DCM) 7-14 Giant Schnauzer, Schnauzer	
8764 UPDATE! Dilated cardiomyopathy (DCM) 7-14 English Toy Terrier, Manchester Terrier, Nova Scotia Duck Tolling Retriever, Welsh Springer Spaniel	
8872 NEW! Dilated cardiomyopathy (DCM1-4) 7-14 Dobermann	
8831 Myxomatous mitral valve disease (MMVD) 3-5 Cavalier King Charles Spaniel, Dachshund	
8739 Ventricular arrhythmia (IVA) 3-5 Rhodesian Ridgeback	

Dental

8303 Amelogenesis imperfecta/Familial enamel hypoplasia (AI/FEH) 3-14 Akita, American Akita, Italian Greyhound, Parson Russell Terrier, Samoyed	
8698 Dental-skeletal-retinal anomaly (DSRA) 3-5 Italian Cane Corso	
8819 Maxillary canine tooth mesioversion (MCM) 3-5 Shetland Sheepdog	

Dermatologic

8317 Congenital ichthyosis (Great Dane) 7-14	
8532 Dermatomyositis (DMS) 7-14 Collie (Rough/Smooth), Shetland Sheepdog	
8406 Dry eye curly coat syndrome (CCS) 3-14 Cavalier King Charles Spaniel	
8643 Dystrophic epidermolysis bullosa (DEB)..... 7-14 Central Asian Shepherd	
8484 Ectodermal dysplasia/Skin fragility syndrome (ED/SFS) 7-14 Chesapeake Bay Retriever	

8311	Epidermolytic hyperkeratosis (EHK)	7-14
	Norfolk Terrier	
8688	Exfoliative cutaneous lupus erythematosus (ECLE)	7-14
	German Shorthaired Pointer, Magyar Vizsla	
8672	Hereditary nasal parakeratosis (HNPK)	7-14
	Greyhound	
8421	Hereditary nasal parakeratosis (HNPK) Patent/License LABOKLIN	3-5
	Labrador Retriever	
8555	Ichthyosis (American Bulldog).....	3-5
8481	Ichthyosis* (Golden Retriever).....	7-14
8738	Ichthyosis type 2 (Golden Retriever).....	7-14
8198	Junctional epidermolysis bullosa (JEB)	3-14
	German Shorthaired Pointer	
8273	Lethal acrodermatitis (LAD)	3-5
	Bull Terrier, Miniature Bull Terrier	

Haematologic

8737	Afibrinogenemia (AFG) (Dachshund).....	7-14
8862	NEW! Delayed postoperative haemorrhage (DEPOH)	7-14
	Deerhound, Greyhound	
8151	Factor VII deficiency (F7)	3-5
	Airedale Terrier, Alaskan Klee Kai, Beagle, Deerhound, Finnish Hound, Giant Schnauzer, Papillon, Phalène, Welsh Springer Spaniel	
8809	Factor XI deficiency (F11)	7-14
	Kerry Blue Terrier	
8077	Glanzmann thrombasthenia (GT)	7-14
	Pyrenean Mountain Dog	
8232	Haemophilia A (factor VIII deficiency) Patent/License LABOKLIN	7-14
	Havanese	
8689	UPDATE! Haemophilia A (factor VIII deficiency).....	3-14
	Boxer, German Shepherd, Labrador Retriever, Old English Sheepdog, Rhodesian Ridgeback	
8221	Haemophilia B (factor IX deficiency) Patent/License LABOKLIN	3-14
	American Akita, Hovawart, Lhasa Apso, Rhodesian Ridgeback	
8319	Haemorrhagic diathesis (Scott syndrome).....	7-14
	German Shepherd	
8217	Macrothrombocytopenia (MTC)	7-14
	American Cocker Spaniel, Bichon Frise, Boxer, Cairn Terrier, Cavalier King Charles Spaniel, Chihuahua, English Cocker Spaniel, Havanese, Jack Russell Terrier, Labrador Retriever, Maltese, Norfolk Terrier, Parson Russell Terrier, Poodle, Shih Tzu	
8312	May-Hegglin anomaly (MHA) (Pug)	7-14

8870	NEW! Methaemoglobinaemia (MetHg)	7-14
	Pomeranian	
8017	Phosphofructokinase deficiency (PFKD)	7-14
	American Cocker Spaniel, English Springer Spaniel, German Spaniel, Whippet	
8053	Postoperative haemorrhage (P2Y12)	7-14
	Great Swiss Mountain Dog	
8141	Prekallikrein deficiency (KLK)	7-14
	Shih Tzu	
8015	Pyruvate kinase deficiency (PK)	7-14
	Basenji, Beagle, Cairn Terrier, Labrador Retriever, Pug, West Highland White Terrier	
8486	Thrombopathia	3-5
	Basset Hound, Landseer	
8119	von Willebrand disease type 1 (vWD1)	3-5
	Bernese Mountain Dog, Coton de Tuléar, Dobermann, Drentsche Patridge Dog, German Pinscher, Irish Red and White Setter, Irish Red Setter, Kerry Blue Terrier, Kromfohrlander, Manchester Terrier, Papillon, Poodle, Stabijhoun, Welsh Corgi Pembroke	
8014	von Willebrand disease type 2 (vWD2)	3-5
	German Short-haired Pointing Dog, German Wire-haired Pointing Dog	
8233	von Willebrand disease type 3 (vWD3)	3-14
	Kooikerhondje, Scottish Terrier, Shetland Sheepdog	

Immunologic

8184	C3 deficiency (C3) (Brittany Spaniel).....	7-14
8012	Canine leucocyte adhesion deficiency (CLAD)	3-5
	Irish Red and White Setter, Irish Red Setter	
8327	Leukocyte adhesion deficiency type III (LAD3)	7-14
	German Shepherd	
8360	Mycobacterium avium complex sensitivity (MAC)	3-5
	Miniature Schnauzer	
8328	Severe combined immunodeficiency (SCID)	7-14
	Frisian Water Dog, Jack Russell Terrier, Parson Russell Terrier	
8143	Trapped neutrophil syndrome (TNS)	3-5
	Border Collie	
8063	X-chromosomal severe immunodeficiency (X-SCID)	7-14
	Basset Hound, Welsh Corgi	

Intestinal

8579	Lundehund syndrome (LHS)	7-14
	Norwegian Lundehund	

Metabolic

- 8552 **Acatalasemia** (Beagle) 3-5
- 8062 **Malignant hyperthermia** (MH)..... 3-5
all breeds
- 8032 **MDR1 gene variant** (Ivermectin hypersensitivity) 3-5
Australian Shepherd, Border Collie, Collie (Rough/Smooth), Elo, German Shepherd, Longhaired Whippet, McNab, Miniature American Shepherd, Old English Sheepdog, Shetland Sheepdog, Silken Windhound, Wäller, White Swiss Shepherd Dog

Morphologic

- 8605 **Spinal dysraphism** (NTD)..... 7-14
Weimaraner

Muscular

- 8073 **Centronuclear myopathy** (CNM) 3-14
German Hunting Terrier, Great Dane, Labrador Retriever
- 8206 **Congenital myasthenic syndrome** (CMS)..... 7-14
Golden Retriever, Jack Russell Terrier, Labrador Retriever, Old Danish Pointing Dog, Parson Russell Terrier
- 8612 **Inflammatory myopathy** (IM) 7-14
Dutch Shepherd
- 8863 **NEW! Limb-girdle muscular dystrophy** (LGMD) 7-14
Dachshund
- 8068 **UPDATE! Muscular dystrophy** (MD) 3-14
American Staffordshire Terrier, Cavalier King Charles Spaniel, Golden Retriever, Landseer, Norfolk Terrier
- 8220 **Myostatin mutation** ("bully" gene) 7-14
Whippet
- 8022 **Myotonia congenita** 3-14
Australian Cattle Dog, Border Collie, Labrador Retriever, Miniature Schnauzer
- 8172 **Nemalin myopathy** (NM)..... 7-14
American Bulldog
- 8933 **NEW! Paradoxical pseudomyotonia** (PP)..... 7-14
English Cocker Spaniel, English Springer Spaniel
- 8305 **X-linked myopathy** (XL-MTM) 7-14
Labrador Retriever, Rottweiler

Neoplastic

- 8871 **NEW! Familial thyroid follicular cell carcinoma** (FTFC)..... 7-14
German Long-haired Pointing Dog (risk analysis)
- 8301 **Renal cystadenocarcinoma and nodular dermatofibrosis** (RCND) 3-14
German Shepherd
- 8823 **Squamous cell carcinoma of the toe** (EDTA blood only) 7-14
black Giant Schnauzer, black Poodle (risk analysis)

Nephrologic

- 8131 **Familial nephropathy*** (FN) 7-14
English Cocker Spaniel, Welsh Springer Spaniel
- 8192 **Familial nephropathy** (FN)..... 7-14
English Springer Spaniel, Samoyed
- 8272 **Fanconi syndrome** (Basenji) 7-14
- 8476 **Polycystic kidney disease** (PKD) 7-14
Bull Terrier
- 8492 **Protein losing nephropathy** (PLN) 3-5
Airedale Terrier, Irish Soft Coated Wheaten Terrier
- 8345 **Renal dysplasia and hepatic fibrosis** (RDHN)..... 7-14
Norwich Terrier

Neurologic

- 8038 **Acral mutilation syndrome** (AMS) 3-5
English Cocker Spaniel, English Pointer, English Springer Spaniel, French Spaniel, German Short-haired Pointing Dog
- 8313 **Alaskan Husky encephalopathy** (AHE) 3-5
Husky
- 8479 **Alaskan Malamute polyneuropathy** (AMPN) 3-5
Alaskan Malamute
- 8601 **Alexander disease** (AxD) 7-14
Labrador Retriever
- 8614 **Behaviour propensity**..... 7-14
Belgian Shepherd (Malinois only)
- 8878 **NEW! Bunny hopping syndrome** (BHS1) 7-14
Weimaraner
- 8575 **Canine multiple system degeneration** (CMSD)..... 7-14
Chinese Crested Dog, Kerry Blue Terrier
- 8772 **Cerebellar ataxia*** (CA) 28-42
Italian Spinone
- 8860 **NEW! Cerebellar ataxia** (CA1) 7-14
Belgian Shepherd, Pyrenean Mountain Dog
- 8868 **NEW! Cerebellar hypoplasia** (CH) 7-14
White Swiss Shepherd Dog
- 8314 **Cerebral dysfunction** (CDFS) 3-14
Stabijhoun
- 8538 **Charcot-Marie-Tooth neuropathy** (CMT) 3-5
Miniature Schnauzer
- 8697 **CNS atrophy with cerebellar ataxia** (CACA) 7-14
Belgian Shepherd
- 8758 **Color dilution and neurological signs** (CDN) 7-14
Dachshund

8260 Dandy-Walker-like malformation (DWLM) 3-5 Eurasian	
8202 Episodic falling (EF) Patent/License LABOKLIN 7-14 Cavalier King Charles Spaniel	
8152 Exercise induced collapse (EIC) Patent/License LABOKLIN 3-5 Boykin Spaniel, Chesapeake Bay Retriever, Clumber Spaniel, Curly Coated Retriever, German Wire-haired Pointing Dog, Labrador Retriever, Old English Sheepdog, Welsh Corgi Pembroke	
8467 Finnish Hound ataxia (FHA) 3-5 Finnish Hound, Norrbottenspitz	
8016 Fucosidosis 7-14 English Springer Spaniel	
8007 Globoid cell leucodystrophy/Krabbe disease 3-14 Cairn Terrier, Irish Red Setter, West Highland White Terrier	
8066 GM1-Gangliosidosis (GM1) 3-14 Husky, Portuguese Waterdog, Shiba Inu	
8208 GM2-Gangliosidosis (GM2) 7-14 Japanese Chin, Poodle, Shiba Inu	
8449 Hereditary ataxia (HA) 3-14 Australian Shepherd, Gordon Setter, Miniature American Shepherd, Norwegian Buhund, Norwegian Elkhound, Old English Sheepdog	
8179 Hereditary neuropathy (GHN) 7-14 Greyhound	
8284 Juvenile brain disease (JBD) 3-14 Jack Russell Terrier, Parson Russell Terrier	
8459 Juvenile epilepsy (JE) 3-5 Lagotto Romagnolo	
8271 Juvenile laryngeal paralysis & polyneuropathy (JLPP) 3-5 Rottweiler, Russian Black Terrier	
8557 Juvenile myoclonic epilepsy (JME) 3-5 Rhodesian Ridgeback	
8125 L-2-hydroxyglutaric aciduria (L-2-HGA) 3-14 Staffordshire Bull Terrier, Yorkshire Terrier	
8005 Lafora disease (EDTA blood only) 14-21 Basset Hound, Beagle, Chihuahua, Dachshund, French Bulldog, Newfoundland, Welsh Corgi	
8270 Lagotto storage disease (LSD) 3-5 Lagotto Romagnolo	
8361 Laryngeal paralysis (LP) 7-14 Bull Terrier, Miniature Bull Terrier	
8685 Laryngeal paralysis with polyneuropathy type 3 (LPPN3) 3-5 Labrador Retriever, Leonberger, Saint Bernard	

8493 Late onset ataxia (LOA) 3-5 Jack Russell Terrier, Parson Russell Terrier	
8487 Leonberger polyneuropathy 1 (LPN1) 7-14 Leonberger	
8494 Leonberger polyneuropathy 2 (LPN2) 7-14 Leonberger	
8283 Leukoencephalomyelopathy (LEMP) 3-14 Great Dane, Leonberger, Rottweiler	
8364 Leukoencephalopathy (LEP) 7-14 Schnauzer	
8932 NEW! Lysosomal storage disease (LSD) 7-14 Dalmatian, Doberman	
8288 MCAD deficiency 7-14 Cavalier King Charles Spaniel	
8521 Mitochondrial fission encephalopathy (MFE) 7-14 Bullmastiff	
8067 Narcolepsy 3-14 Dachshund, Dobermann, Labrador Retriever	
8429 Necrotizing meningoencephalitis (NME/PDE) 7-14 Pug	
8457 Neonatal cortical cerebellar abiotrophy (NCCD) 7-14 Beagle, Magyar Vizsla	
8155 Neonatal encephalopathy with seizures (NEWS) 3-14 Standard Poodle	
8308 UPDATE! Neuroaxonal dystrophy (NAD) 3-14 Lagotto Romagnolo, Miniature American Shepherd, Papillon, Rottweiler, Spanish Waterdog	
8396 Neuronal ceroid lipofuscinosis* (NCL) 7-14 American Staffordshire Terrier	
8075 Neuronal ceroid lipofuscinosis (NCL) 3-14 American Bulldog, Border Collie, Chihuahua, Chinese Crested Dog, English Setter, Golden Retriever, Gordon Setter, Italian Cane Corso, Saluki, Tibetan Terrier	
8133 UPDATE! Neuronal ceroid lipofuscinosis (NCL) 3-14 Australian Cattle Dog, Australian Shepherd, Dachshund, Miniature American Shepherd	
8630 Paroxysmal dyskinesia (PxD) 7-14 Irish Soft Coated Wheaten Terrier	
8690 UPDATE! Paroxysmal exercise-induced dyskinesia (PED) 7-14 Shetland Sheepdog, Weimaraner	
8104 Pyruvate dehydrogenase phosphatase 1 deficiency (PDP1) 7-14 Clumber Spaniel, Sussex Spaniel	

8596 Sensory neuropathy (SN)	7-14
Border Collie	
8537 Spinocerebellar ataxia (SCA)	3-14
Alpine Dachsbracke, Fox Terrier, Jack Russell Terrier, Parson Russell Terrier, Patterdale Terrier, Tenterfield Terrier, Toy Fox Terrier	
8768 Spongiforme leukoencephalomyelopathy* (SLEM)	28-42
Border Terrier	
8610 Spongy degeneration with cerebellar ataxia type 1 (SDCA1)	3-5
Belgian Shepherd, Dutch Shepherd	
8582 Spongy degeneration with cerebellar ataxia type 2 (SDCA2)	7-14
Belgian Shepherd, Dutch Shepherd	
8191 Startle disease Patent/License LABOKLIN.....	7-14
Australian Shepherd, Galgo Espagnol, Irish Wolfhound, Miniature American Shepherd	
8673 Subacute necrotising encephalopathy (SNE)	7-14
Yorkshire Terrier	
8615 Succinic semialdehyde dehydrogenase deficiency (SSADHD)	7-14
Saluki	

Neuromuscular

8788 Cerebellar degeneration and myositis complex (CDMC)	7-14
Nova Scotia Duck Tolling Retriever	
8485 Degenerative myelopathy exon 1 (DM exon1)	3-5
Bernese Mountain Dog	
8158 Degenerative myelopathy exon 2 (DM exon2) Patent/License LABOKLIN.....	3-5
all breeds	
8443 Hypomyelination/Shaking puppy syndrome (SPS)	3-14
English Springer Spaniel, Weimaraner	
8869 NEW! Necrotizing myelopathy (ENM)	3-14
Kooikerhondje	

Ophthalmic

8166 Achromatopsia (day blindness) (ACHM)	7-14
German Shepherd, Labrador Retriever	
8330 Canine multi-focal retinopathy (CMR1/2/3)	3-14
American Bulldog, Australian Shepherd, Boerboel, Bullmastiff, Coton de Tuléar, Dogo Canario, Dogue de Bordeaux, English Bulldog, Finnish Lapponian Dog, French Bulldog, Italian Cane Corso, Lapponian Herder, Mastiff, Miniature American Shepherd, Pyrenean Mountain Dog, Swedish Lapphund	
8304 Collie eye anomaly* (CEA)	7-14
Australian Kelpie, Australian Shepherd, Bearded Collie, Border Collie, Boykin Spaniel, Collie (Rough/Smooth), Hokkaido, Lancashire Heeler, Longhaired Wippet, Miniature American Shepherd, Nova Scotia Duck Tolling Retriever, Shetland Sheepdog, Silken Windhound	

8780 Cone degeneration (CD)	7-14
German Short-haired Pointing Dog	
8011 Congenital stationary night blindness (CSNB)	3-14
Briard	
8635 Glaucoma and goniodysgenesis (GG)	3-5
Border Collie	
8157 Hereditary cataract (HSF4)	7-14
Australian Shepherd, Miniature American Shepherd, Wäller, Wirehaired Pointing Griffon, Wäller	
8576 Hereditary cataract* (HSF4)	7-14
Boston Terrier, French Bulldog, Staffordshire Bull Terrier	
8736 Macular corneal dystrophy (MCD)	3-5
Labrador Retriever	
8508 Microphthalmia (RBP4)	3-5
Irish Soft Coated Wheaten Terrier	
8913 NEW! Multiocular defect (MOD)	7-14
Old English Sheepdog	
8226 Primary lens luxation (PLL)	3-5
American Eskimo Dog, American Hairless Terrier, Australian Cattle Dog, Chinese Crested Dog, Danish Swedish Farmdog, Fox Terrier, German Hunting Terrier, Jack Russell Terrier, Lakeland Terrier, Lancashire Heeler, Lucas Terrier, Miniature Bull Terrier, Norfolk Terrier, Norwich Terrier, Parson Russell Terrier, Patterdale Terrier, Pug, Rat Terrier, Sealyham Terrier, Teddy Roosevelt Terrier, Tenterfield Terrier, Tibetan Terrier, Toy Fox Terrier, Volpino Italiano, Welsh Terrier, Westphalia Terrier, Yorkshire Terrier	
8452 Primary open angle glaucoma (POAG)	7-14
Basset Fauve de Bretagne, Basset Hound, Beagle, Norwegian Elkhound, Petit Basset Griffon Vendeen	
8641 Primary open angle glaucoma and lens luxation (POAG/PLL)	3-5
Shar Pei	

Progressive Retinal Atrophy

8574 Bas-PRA1 (Basenji)	3-5
8773 BBS2-PRA (Shetland Sheepdog)	7-14
8207 BBS4-PRA (Puli)	7-14
8375 CNGA1-PRA (Shetland Sheepdog)	3-14
8128 cord1/crd4-PRA	7-14
Beagle, Bolonka Zwetna, Clumber Spaniel, Curly Coated Retriever, Dachshund, English Springer Spaniel, French Bulldog	
8135 crd-PRA (Dachshund)	7-14
8332 crd1-PRA	7-14
American Staffordshire Terrier	
8333 crd2-PRA (American Pitbull Terrier)	7-14

8691	crd3-PRA (Irish Glen of Imaal Terrier).....	7-14
8355	dominant PRA (Bullmastiff, Mastiff)	7-14
8617	eo-PRA Portuguese Water Dog, Spanish Water Dog	7-14
8451	g-PRA (Schapendoes).....	7-14
8200	GR-PRA1 (Golden Retriever).....	3-5
8520	GR-PRA2 (Golden Retriever).....	3-5
8894	NEW! GUCY2D-PRA German Spitz	7-14
8746	IFT122-PRA (Lapponian Herder).....	3-14
8752	JPH2-PRA (Shih Tzu)	3-5
8861	NEW! MERTK-PRA Swedish Vallhund	7-14
8374	NECAP1-PRA (Giant Schnauzer).....	7-14
8573	pap-PRA1 (Papillon, Phalène).....	3-5
8767	PRA3 Tibetan Spaniel, Tibetan Terrier	7-14
8692	PRA4 (Lhasa Apso)	7-14
8879	NEW! PRA with neurodegeneration (PCYT2 deficiency)..... Saarlooswolfhond	7-14
8127	prcd-PRA* (all breeds).....	7-14
8042	rcd1-PRA Irish Red and White Setter, Irish Red Setter	3-14
8353	rcd1a-PRA (Sloughi).....	7-14
8309	rcd2-PRA (Collie (Rough/Smooth))	7-14
8354	rcd3-PRA Chinese Crested Dog, Pomeranian, Welsh Corgi Cardigan	7-14
8435	rcd4-PRA Australian Cattle Dog, English Setter, Gordon Setter, Irish Red and White Setter, Irish Red Setter, Old Danish Pointing Dog, Polish Lowland Sheepdog, Poodle, Small Munsterlander, Tatra Shepherd Dog, Tibetan Terrier	7-14
8546	Type B1-PRA, HIVEP3 Miniature Schnauzer	3-5
8608	XL-PRA (Husky, Samoyed)	7-14
8392	Retinal dysplasia* (OSD)..... Labrador Retriever	7-14
8677	Retinal dysplasia (OSD)..... Northern Inuit, Tamaskan	7-14

8387	Stargardt disease (STGD, retinal degeneration)	3-5
	Labrador Retriever	
Respiratory		
8595	Acute respiratory distress syndrome (ARDS)..... Dalmatian	7-14
8373	Inflammatory pulmonary disease (IPD)	3-5
	Collie (Rough/Smooth)	
8598	Lethal lung disease (LAMP3)	7-14
	Airedale Terrier	
8483	Primary ciliary dyskinesia (PCD)..... Alaskan Malamute, Old English Sheepdog	3-14
8391	Upper airway syndrome (UAS)..... Norwich Terrier	7-14
Skeletal		
8219	Brachyuria (stumpy tail)..... Australian Shepherd, Australian Stumpy Tail Cattle Dog, Austrian Pinscher, Bourbonnais Pointer, Bouvier des Ardennes, Brazilian Terrier, Brittany Spaniel, Croatian Sheepdog, Danish/Swedish Farndog, Jack Russell Terrier, Karelian Bear Dog, Miniature American Shepherd, Mudi, Polish Lowland Sheepdog, Pyrenean Shepherd, Savoy Sheepdog, Schipperke, Spanish Waterdog, Swedish Vallhund, Welsh Corgi	3-5
8316	Chondrodysplasia (dwarfism)..... Chinook, Karelian Bear Dog, Norwegian Elkhound	7-14
8294	Chondrodysplasia (CDPA) and -dystrophia (CDDY) (IVDD risk)..... all breeds	7-14
8326	Cleft lip/palate and syndactyly (CLPS)	3-14
	Nova Scotia Duck Tolling Retriever	
8348	Craniomandibular osteopathy (CMO)..... Cairn Terrier, Scottish Terrier, West Highland White Terrier	3-5
8472	Digital hyperkeratosis (DH/HFH)	3-5
	Dogue de Bordeaux, Irish Terrier, Kromfohrlander	
8753	Disproportionate dwarfism	7-14
	Dogo Argentino, Magyar Vizsla	
8389	Hypophosphatasia (HPP)	7-14
	Karelian Bear Dog	
8306	Mucopolysaccharidosis type IIIa (MPS3a)..... Dachshund, Newzealand Huntaway	7-14
8299	Mucopolysaccharidosis type IIIb (MPS3b)	7-14
	Schipperke	
8693	Mucopolysaccharidosis type VI (MPS6)	7-14
	Miniature Pinscher	
8069	Mucopolysaccharidosis type VII (MPS7)..... Brazilian Terrier, German Shepherd	3-14

8411 Musladin-Lueke syndrome (MLS) 3-5 Beagle	
8877 NEW! Osteochondrodysplasia (OCD) 7-14 Miniature Poodle	
8215 Osteogenesis imperfecta (brittle bone disease)..... 3-14 Beagle, Dachshund, Golden Retriever	
8394 Raine syndrome (Border Collie)..... 3-5	
8747 Robinow-like syndrome (DVL2) 7-14 American Bulldog, American Pitbull Terrier, American Staffordshire Terrier, Boston Terrier, Continental Bulldog, Dogue de Bordeaux, English Bulldog, French Bulldog, Old English Bulldog, Shih Tzu, Staffordshire Bull Terrier	
8456 Skeletal dysplasia 2 (dwarfism) (SD2) 3-5 Labrador Retriever	
8335 Spondylocostal dysostosis (Comma defect) 3-14 Miniature Schnauzer	
8393 van den Ende-Gupta syndrome (VDEGS) 3-5 Fox Terrier, Toy Fox Terrier	
8302 Vitamin D dependent rickets (VDR) 7-14 Pomeranian	

Systemic

8434 Congenital hypothyroidism with goiter (CHG) 3-14 Fox Terrier, French Bulldog, Rat Terrier, Spanish Waterdog, Tenterfield Terrier, Toy Fox Terrier	
8781 Congenital idiopathic megaesophagus (CIM) 7-14 German Shepherd	
8735 Copper storage toxicosis (CT) 7-14 Bedlington Terrier	
8388 Copper storage disease - copper toxicosis* (CT)..... 7-14 Doberman, Labrador Retriever	
8805 Dyserythropoietic anaemia and myopathy (DAMS) 3-14 English Springer Spaniel, Labrador Retriever	
8323 Gallbladder mucocoeles (GBM) 7-14 American Cocker Spaniel, Cairn Terrier, English Cocker Spaniel, Pomeranian, Shetland Sheepdog	
8322 Glycogen storage disease (GSD Ia) 7-14 Maltese, German Pinscher	
8513 Glycogen storage disease (GSD II) (Pompe disease) 3-14 Finnish Laponian Dog, Laponian Herder, Swedish Laphund	
8156 Glycogen storage disease (GSD IIIa) 7-14 Curly Coated Retriever	
8098 Grey Collie syndrome (GCS) (Canine cyclic neutropenia) 7-14 Collie (Rough/Smooth)	

8475 Imerslund-Gräsbeck syndrome (IGS) 3-14 Beagle, Border Collie, Komondor	
8602 Obesity (ADI) 7-14 Flat Coated Retriever, Labrador Retriever	
8142 Pituitary dwarfism 7-14 Czechoslovakian Wolfhound, German Shepherd, Karelian Bear Dog, Laponian Herder, Saarlooswolfhound, Tibetan Terrier, White Swiss Shepherd Dog	
8642 Shar Pei autoinflammatory disease (SPAID) 3-5 Shar Pei	

Urologic

8013 Cystinuria 3-14 Australian Cattle Dog, Continental Bulldog, English Bulldog, French Bulldog, Labrador Retriever, Landseer, Mastiff, Miniature Pinscher, Newfoundland, Olde English Bulldog	
8154 Hyperuricosuria (HUU/SLC) 3-5 all breeds	
8462 Persistent Müllerian duct syndrome (PMDS) 3-5 Miniature Schnauzer	
8321 Primary hyperoxaluria (PH) 7-14 Coton de Tuléar	
8779 Xanthinuria type II 7-14 Cavalier King Charles Spaniel, Dachshund, English Toy Terrier, English Cocker Spaniel, Manchester Terrier	

Coat Colour / Coat Length / Coat Structure

(sample material: 0.5 - 1 ml EDTA blood, buccal swabs)

If more than one characteristic is requested, we charge ...€ for the first and ...€ (both prices ex. VAT) for each additional test (not possible for test combinations and test via partner laboratory; * = partner laboratory).

8654 Combination coat colours dog 7-14 A-locus, B-locus, D-locus (d1), E-locus (e1), I-locus, K-locus, S-locus	
8144 A-locus (Agouti) (ASIP Analysis)..... 7-14 all breeds	
8023 B-locus (alleles: bd, bc, bs) (brown, chocolate, liver(nose)) 3-5 all breeds	
8639 Rare B-locus variants (alleles: b4, be, bh)..... 3-14 b4: Australian Shepherd, Miniature American Shepherd; be: Lancashire Heeler; bh: Husky	
8644 C-locus (albino: caL, OCA2) 3-14 French Bulldog, German Giant Spitz, Lhasa Apso, Pekingese, Pomeranian	
8613 C-locus (OCA4) (Bullmastiff) 7-14	
8124 Coat length I (long or short hair) 3-5 all breeds	

8397 UPDATE! Coat length II (long or short hair).....	7-14
Additional gene loci have to be analysed for complete characterisation of coat length in the following breeds: Afghan Hound, Akita Inu, Alaskan Malamute, Chow Chow, Eurasian, French Bulldog, Husky, Prague Rattler, Saluki, Samoyed, Shar Pei	
8526 Cocoa (dark brown, dark chocolate)	3-5
French Bulldog	
8196 Curly (curled hair: C1, C2) (all breeds)	7-14
8136 D-locus d1 (dilution) (all breeds)	3-5
8636 Rare D-locus variants (alleles: d2, d3)	7-14
d2: Chow Chow, Sloughi, Thai Ridgeback Dog; d3: Chihuahua, Italian Greyhound, Mudi, Pumi, etc.	
8018 E-locus e1 (yellow, lemon, red, cream, apricot)	3-5
all breeds	
8126 Rare E-locus variants (allele: e2)	7-14
Australian Cattle Dog	
8146 EM-locus (melanistic mask)	3-5
all breeds	
8682 Special colours E-locus: EG, EH, eA (domino, grizzle, sabel, hare pied)	3-14
eA: all breeds; EG: Afghan Hound, Barsoi, Saluki; EH: American Cocker Spaniel, English Cocker Spaniel	
8195 Furnishing (wire hair) (all breeds)	7-14
8254 H-locus (harlequin) (Great Dane)	3-5
8599 Hairlessness (powderpuff)	7-14
Chinese Crested Dog, Deerhound, Mexican Hairless Dog, Peruvian Hairless Dog	
8366 I-locus (pheomelanin intensity)	3-5
all breeds	
8405 Improper coat	7-14
Portuguese Waterdog	
8145 K-locus (only the allele KB)	3-5
Please note: the alleles kbr (brindle) and ky cannot be determined by this test	
8893 NEW! K-locus brindle	7-14
all breeds (this service is not discountable if several coat characteristics are examined)	
8188 M-locus* (alleles: Mh, M, Ma+, Ma, Mc+, Mc, m)	7-14
all breeds	
8578 Panda white spotting	7-14
German Shepherd	
8438 S-locus (piebald, white spotting)	7-14
all breeds	

8307 Saddle-tan	7-14
Basset Hound, Welsh Corgi	
8403 Shedding (all breeds)	7-14
8765 Ticking (Roan, Mottle, Spotted)	7-14
all breeds	
Test Combinations Dog	
(sample material: 0.5 - 1 ml EDTA blood, buccal swabs)	
8654 Combination coat colours dog	7-14
A-locus, B-locus, D-locus (d1), E-locus (e1), I-locus, K-locus, S-locus	
8291 Coat length I + II (long or short hair)	7-14
Afghan Hound, Akita Inu, Alaskan Malamute, Chow Chow, Eurasian, French Bulldog, Husky, Prague Rattler, Saluki, Samoyed, Shar Pei	
8344 Degenerative myelopathy (DM exon2) + MDR1 gene variant	3-5
Australian Shepherd, Border Collie, Collie (Rough/Smooth), Elo, German Shepherd, Longhaired Whippet, McNab, Miniature American Shepherd, Old English Sheepdog, Shetland Sheepdog, Silken Windhound, Wäller, White Shepherd (15.00 Euro patent fee included)	
8900 NEW! Symptom complex combination anaemia	14
F7 (Airedale Terrier, Alaskan Klee Kai, Beagle, Deerhound, Finnish Hound, Gigant Schnauzer, Papillon, Phalène, Welsh Springer Spaniel), PFKD (American Cocker Spaniel, English Springer Spaniel, German Spaniel, Whippet), PK (Basenji, Beagle, Cairn Terrier, Labrador Retriever, Pug, West Highland White Terrier), IGS (Border Collie, Beagle, Komondor) (The tests are validated for the above-mentioned breeds and their mixed-breeds, but the causative gene variants can also occur in all other breeds)	
8901 NEW! Symptom complex combination dermatology	14
CCS (Cavalier King Charles Spaniel), DEB (Central Asian Shepherd), ED/SFS (Chesapeake Bay Retriever), EHK (Norfolk Terrier), ECLE (German Shorthair Pointer, Magyar Vizsla), Congenital ichthyosis (Great Dane), HNPk (Greyhound, Labrador Retriever), Ichthyosis (American Bulldog, Golden Retriever), Ichthyosis typ 2 (Golden Retriever), JEB (German Shorthaired Pointer), Lethal acrodermatitis (LAD) (Bull Terrier, Miniature Bull Terrier), D-Locus, D-Locus (rare variants) (The tests are validated for the above-mentioned breeds and their mixed-breeds, but the causative gene variants can also occur in all other breeds)	
8902 NEW! Symptom complex combination endocrinopathy	14
CHG (Fox Terrier, French Bulldog, Rat Terrier, Spanish Waterdog, Tenterfield Terrier), Pituitary dwarfism (Czechoslovakian Wolfdog, German Shepherd, Karelian Bear Dog, Lapponian Herder, Saarlooswolfdog, Tibetan Terrier, White Swiss Shepherd Dog) (The tests are validated for the above-mentioned breeds and their mixed-breeds, but the causative gene variants can also occur in all other breeds)	
8903 NEW! Symptom complex combination respiratory diseases	14
ARDS (Dalmatian), IPD (Collie), LAMP3 (Airedale Terrier), UAS (Norwich Terrier), PCD (Alaskan Malamute, Old English Sheepdog) (The tests are validated for the above-mentioned breeds and their mixed-breeds, but the causative gene variants can also occur in all other breeds)	

Breed Specific Combinations

(sample material: 0.5 - 1 ml EDTA blood, buccal swabs)

- 8856 Combination American Bully** 7-14
 Cystinuria, Degenerative myelopathy (DM exon2), Hyperurikosuria (HUU/SLC), Neuronal ceroid lipofuscinosis (NCL), Progressive retinal atrophy (crd1-PRA) (15.00 Euro patent fee included)
- 8832 UPDATE! Combination American Staffordshire Terrier** 7-14
 Degenerative myelopathy (DM exon2), Neuronal ceroid lipofuscinosis* (NCL), Progressive retinal atrophy (crd1-PRA), A-Locus, D-Locus d1 (Dilution) (15.00 Euro patent fee included)
- 8658 Combination Australian Cattle Dog** 7-14
 Cystinuria, Degenerative myelopathy (DM exon2), Neuronal ceroid lipofuscinosis (NCL), Primary lens luxation (PLL), Progressive retinal atrophy* (prcd-PRA), Progressive retinal atrophy (rcd4-PRA) (15.00 Euro patent fee included)
- 8624 Combination Australian Shepherd and Miniature American Shepherd** 7-14
 Brachyuria (stumpy tail), Collie eye anomaly* (CEA), Degenerative myelopathy (DM exon2), Hereditary cataract (HSF4), Hyperuricosuria (HUU/SLC), MDR1 gene variant (ivermectin hypersensitivity), Neuronal ceroid lipofuscinosis (NCL), Progressive retinal atrophy* (prcd-PRA) (15.00 Euro patent fee included)
- 8783 Combination Barbet** 7-14
 Progressive retinal atrophy* (prcd-PRA), von Willebrand disease type I (vWD1), D-locus d1 (dilution), K-locus
- 8815 Combination Basenji** 7-14
 Fanconi syndrome, Progressive retinal atrophy (Bas-PRA1), Pyruvate kinase deficiency (PK)
- 8620 Combination Beagle** 7-14
 Acatalasemia, Factor VII deficiency, Imlerslund-Gräsbeck syndrome (IGS), Musladin-Lueke syndrome (MLS), Neonatal cortical cerebellar abiotrophy (NCCD), Osteogenesis imperfecta (brittle-bone disease), Primary open angle glaucoma (POAG), Pyruvate kinase deficiency (PK)
- 8634 Combination Belgian Shepherd and Dutch Shepherd** 7-14
 Cardiomyopathy with juvenile mortality (CJM), CNS atrophy with cerebellar ataxia (CACA), Spongy degeneration with cerebellar ataxia type 1 + type 2 (SDCA1 + SDCA2)
- 8447 Combination Bernese Mountain Dog** 3-5
 Degenerative myelopathy (DM exon1 and exon2 (15.00 Euro patent fee included)
- 8833 UPDATE! Combination Bolonka Zwetna** 7-14
 Progressive retinal atrophy (cord1-PRA), Progressive retinal atrophy* (prcd-PRA), Progressive retinal atrophy (rcd4-PRA), D-Locus d1 (Dilution), Furnishing
- 8626 Combination Border Collie** 7-14
 Collie eye anomaly* (CEA), Glaucoma and goniodysgenesis (GG), Imlerslund-Gräsbeck syndrome (IGS), MDR1 gene variant (ivermectin hypersensitivity), Neuronal ceroid lipofuscinosis (NCL), Raine syndrome, Sensory neuropathy (SN), Trapped neutrophil syndrome (TNS)
- 8694 Combination Bulldog** 7-14
 Canine multi-focal retinopathy (CMR1), Cystinuria, Degenerative myelopathy (DM exon2), Hyperuricosuria (HUU/SLC), Robinow-like syndrome (DVL2) (15.00 Euro patent fee included)

- 8926 NEW! Combination Bullmastiff** 7-14
 Canine multi-focal retinopathy (CMR1/2/3), Cystinuria, Degenerative myelopathy (DM exon2), Mitochondrial fission encephalopathy (MFE), Progressive retinal atrophy (dom-PRA) (15.00 Euro patent fee included in combi-price)
- 8474 UPDATE! Combination Bull Terrier** 7-14
 Laryngeal paralysis (LP), Lethal acrodermatitis (LAD), Primary lens luxation (PLL)
- 8785 Combination Cairn Terrier** 7-14
 Craniomandibular osteopathy (CMO), Globoid cell leukodystrophy (Krabbe disease), Macrothrombocytopenia (MTC), Pyruvate kinase deficiency (PK)
- 8407 Combination Cavalier King Charles Spaniel 1** 7-14
 Dry eye curly coat syndrome (CCS), Episodic falling (EF) (15.00 Euro patent fee included)
- 8653 Combination Cavalier King Charles Spaniel 2** 7-14
 Degenerative myelopathy (DM exon2), Dry eye curly coat syndrome (CCS), Episodic falling (EF), Macrothrombocytopenia (MTC), Muscular dystrophia (MD) (30.00 Euro patent fee included)
- 8784 Combination Chesapeake Bay Retriever** 7-14
 Degenerative myelopathy (DM exon2), Exercise induced collapse (EIC), Progressive retinal atrophy* (prcd-PRA) (30.00 Euro patent fee included)
- 8754 Combination Chihuahua** 7-14
 Chondrodysplasia (CDPA) and -dystrophia (CDDY) (IVDD risk), Macrothrombocytopenia (MTC), Neuronal ceroid lipofuscinosis (NCL), Progressive retinal atrophy* (prcd-PRA)
- 8346 Combination Chinese Crested Dog** 7-14
 Canine multiple system degeneration (CMSD), Degenerative myelopathy (DM exon2), Neuronal ceroid lipofuscinosis (NCL), Primary lens luxation (PLL), Progressive retinal atrophy* (prcd-PRA), Progressive retinal atrophy (rcd3-PRA) (15.00 Euro patent fee included)
- 8662 Combination Cocker Spaniel** 7-14
 Acral mutilation syndrome (AMS), Familial nephropathy* (FN), Progressive retinal atrophy* (prcd-PRA)
- 8625 Combination Collie** 7-14
 Collie eye anomaly* (CEA), Degenerative myelopathy (DM exon2), Dermatomyositis (DMS), Inflammatory pulmonary disease (IPD), MDR1 gene variant (ivermectin hypersensitivity), Progressive retinal atrophy (rcd2-PRA) (15.00 Euro patent fee included)
- 8923 NEW! Combination Continental Bulldog** 7-14
 Cystinuria, Robinow-like-syndrome (DVL2), B-Locus
- 8676 Combination Continental Toy Spaniel** 7-14
 Degenerative myelopathy (DM exon2), Factor VII deficiency (F7), Neuroaxonal dystrophy (NAD), Progressive retinal atrophy (pap-PRA1), von Willebrand disease type I (vWD1) (15.00 Euro patent fee included)
- 8817 Combination Curly Coated Retriever** 7-14
 Degenerative myelopathy (DM exon2), Exercise induced collapse (EIC), Glycogen storage disease (GSD IIIa), Progressive retinal atrophy (cord1-PRA) (30.00 Euro patent fee included)
- 8659 Combination Dachshund 1** 7-14
 Neuronal ceroid lipofuscinosis (NCL), Osteogenesis imperfecta (brittle bone disease), Progressive retinal atrophy (cord1-PRA), Progressive retinal atrophy (crd-PRA)

8924 NEW! Combination Dachshund 27-14	
Chondrodysplasia (CDPA) and -dystrophia (CDDY) (IVDD risk), Osteogenesis imperfecta (brittle bone disease), Neuronal ceroid lipofuscinosis (NCL), Progressive retinal atrophy (cord1-PRA), Progressive retinal atrophy (crd-PRA)	
8645 Combination Dobermann7-14	
Degenerative myelopathy (DM exon2), Narkolepsy, von Willebrand disease type 1 (vWD1), B-locus (brown), D-locus d1 (dilution) (15.00 Euro patent fee included)	
8660 UPDATE! Combination English Springer Spaniel7-14	
Acral mutilation syndrome (AMS), Dyserythropoietic anemia and myopathy (DAMS), Familial nephropathy (FN), Fucosidosis, Hypomyelination / Shaking puppy syndrome (SPS), Phosphofructokinase deficiency (PFKD), Progressive retinal atrophy (cord1-PRA)	
8834 Combination Fox Terrier7-14	
Congenital hypothyroidism with goiter (CHG), Primary lens luxation (PLL), Spinocerebellar ataxia (SCA), Van den Ende-Gupta syndrome (VDEGS)	
8285 Combination French Bulldogg7-14	
Canine multi-focal retinopathy (CMR1), Chondrodysplasia (CDPA) and -dystrophia (CDDY) (IVDD risk), Congenital hypothyroidism with goiter (CHG), Cystinuria, Degenerative myelopathy (DM exon2), Hereditary cataract* (HSF4) (15.00 Euro patent fee included)	
8649 UPDATE! Combination German Shepherd and Wolfdog7-14	
Coat length l (long or short hair), Congenital idiopathic megaesophagus (CIM), Degenerative myelopathy (DM exon2), Haemophilia A (Factor VIII deficiency), MDR1 gene variant (Ivermectin hypersensitivity), Pituitary dwarfism (15.00 Euro patent fee included)	
8782 Combination German Short-haired Pointing Dog7-14	
Acral mutilation syndrome (AMS), Exfoliative cutaneous lupus erythematosus (ECLE), Junctional epidermolysis bullosa (JEB), von Willebrand disease type 2 (vWD2)	
8725 Combination Giant Schnauzer7-14	
Degenerative myelopathy (DM exon2), Dilated cardiomyopathy (DCM), Hyperuricosuria (HUU/SLC), Progressive retinal atrophy* (prcd-PRA), Progressive retinal atrophy (NECAP1-PRA) (15.00 Euro patent fee included)	
8622 Combination Golden Retriever7-14	
Ichthyosis*, Muscular dystrophy (MD), Neuronal ceroid lipofuscinosis (NCL), Progressive retinal atrophy (GR-PRA1), Progressive retinal atrophy (GR-PRA2), Progressive retinal atrophy* (prcd-PRA)	
8741 Combination Gordon Setter7-14	
Hereditary ataxia (HA), Neuronal ceroid lipofuscinosis (NCL), Progressive retinal atrophy (rcd4-PRA)	
8925 NEW! Combination Great Dane7-14	
Degenerative myelopathy (DM exon2), Centronuclear myopathy (CNM), Congenital ichthyosis, Leukoencephalomyelopathy (LEMP) (15.00 Euro patent fee included)	
8678 Combination Great Swiss Mountain Dog7-14	
Degenerative myelopathy (DM exon2), Hyperuricosuria (HUU/SLC), Malignant hyperthermia (MH), Postoperative haemorrhage (P2Y12), D-locus d1 (dilution) (15.00 Euro patent fee included)	

8929 NEW! Combination Havanese7-14	
Chondrodysplasia (CDPA) and -dystrophia (CDDY) (IVDD risk), Degenerative myelopathy (DM exon2), Haemophilia A (Factor VIII deficiency), Macrothrombocytopenia (MTC), Furnishing (30.00 Euro patent fee included)	
8930 NEW! Combination Heideterrier7-14	
Centronuclear myopathy (CNM), Degenerative myelopathy (DM exon2), Dilated cardiomyopathy (DCM), Lethal acrodermatitis (LAD), Primary lens luxation (PLL) (15.00 Euro patent fee included)	
8638 Combination Irish (Red and White) Setter7-14	
Canine leukocyte adhesion deficiency (CLAD), Globoid cell leukodystrophy (Krabbe disease), Progressive retinal atrophy (rcd1-PRA), Progressive retinal atrophy (rcd4-PRA)	
8663 Combination Irish Soft Coated Wheaten Terrier7-14	
Degenerative myelopathy (DM exon2), Hyperuricosuria (HUU/SLC), Microphthalmia (RBP4), Paroxysmal dyskinesia (PxD), Protein losing nephropathy (PLN) (15.00 Euro patent fee included)	
8755 Combination Kromfohrlander7-14	
Degenerative myelopathy (DM exon2), Digital hyperkeratosis (DH/HFH), Hyperuricosuria (HUU/SLC), MDR1 gene variant (Ivermectin hypersensitivity), von Willebrand disease type I (vWD1), Furnishing (15.00 Euro patent fee included)	
8743 Combination Labradoodle7-14	
Centronuclear myopathy (CNM), Degenerative myelopathy (DM exon2), Exercise induced collapse (EIC), Hereditary nasal parakeratosis (HNPK), Neonatal encephalopathy with seizures (NEWS), Skeletal dysplasia 2 (dwarfism) (SD2), Progressive retinal atrophy* (prcd-PRA), Progressive retinal atrophy (rcd4-PRA), von Willebrand disease type I (vWD1) (45.00 Euro patent fee included)	
8627 Combination Labrador 1 (basic combination).....7-14	
Centronuclear myopathy (CNM), Degenerative myelopathy (DM exon2), Exercise induced collapse (EIC), Hereditary nasal parakeratosis (HNPK), Progressive retinal atrophy* (prcd-PRA), Retinal dysplasia* (OSD), Skeletal dysplasia 2 (dwarfism) (SD2) (45.00 Euro patent fee included)	
8628 Combination Labrador 2 (extended combination)7-14	
Cystinuria, Hyperuricosuria (HUU/SLC), Macular corneal dystrophy (MCD), Narcolepsy, Obesity, Pyruvate kinase deficiency (PK), Stargardt disease (retinal degeneration) (STGD), X-linked myopathy (XL-MTM)	
8499 Combination Lagotto Romagnolo7-14	
Hyperuricosuria (HUU/SLC), Juvenile epilepsy (JE), Lagotto storage disease (LSD), Neuroaxonal dystrophy (NAD), Progressive retinal atrophy* (prcd-PRA), Furnishing	
8646 Combination Landseer3-5	
Cystinuria, Degenerative myelopathy (DM exon2), Muscular dystrophia (MD), Thrombopathia, D-locus d1 (dilution) (15.00 Euro patent fee included)	
8249 NEW! Combination Lapphund7-14	
Canine multi-focal retinopathy (CMR3), Degenerative myelopathy (DM exon2), Glycogen storage disease (GSDII) (Pompe disease), Progressive retinal atrophy (prcd-PRA)* (15.00 Euro patent fee included)	
8286 Combination Leonberger7-14	
Laryngeal paralysis with polyneuropathy type 3 (LPPN3), Leonberger polyneuropathy 1 (LPN1), Leonberger polyneuropathy 2 (LPN2), Leukoencephalomyelopathy (LEMP)	

8927 NEW! Combination Manchester and Toy Terrier7-14 Dilated cardiomyopathy (DCM), von Willebrand disease type I (vWD1), Xanthinuria type II	
8619 Combination Miniature Schnauzer7-14 Charcot-Marie-Tooth Neuropathy (CMT), Mycobacterium avium complex sensitivity (MAC), Myotonia congenita, Persistent Müllerian duct syndrome (PMDS), Progressive retinal atrophy (Type B1-PRA, HIVEP3), Spondylocostal dysostosis (Comma defect)	
8812 Combination Nova Scotia Duck Tolling Retriever7-14 Cerebellar degeneration and myositis complex (CDMC), Chondrodysplasia (CDPA) and -dystrophia (CDDY) (IVDD risk), Cleft lip/palate and syndactyly (CLPS), Collie eye anomalie* (CEA), Progressive retinal atrophy* (prcd-PRA)	
8633 Combination Old English Sheepdog3-14 Degenerative myelopathy (DM exon2), Exercise induced collapse (EIC), Hereditary ataxia (HA), MDR1 gene variant (ivermectin hypersensitivity), Primary ciliary dyskinesia (PCD) (30.00 Euro patent fee included)	
8837 Combination Pomeranian7-14 Gallbladder mucocoeles, Progressive retinal atrophy (rcd3-PRA), Vitamin D dependent rickets (VDR)	
8621 Combination Poodle 17-14 Degenerative myelopathy (DM exon2), Neonatal encephalopathy with seizures (NEWS), Progressive retinal atrophy* (prcd-PRA), Progressive retinal atrophy (rcd4-PRA), von Willebrand disease type 1 (vWD1) (15.00 Euro patent fee included)	
8857 Combination Poodle 27-14 Degenerative myelopathy (DM exon2), Neonatal encephalopathy with seizures (NEWS), Progressive retinal atrophy* (prcd-PRA), Progressive retinal atrophy (rcd4-PRA), von Willebrand disease type I (vWD1), A-Locus, B-Locus, D-Locus d1 (Dilution), E-Locus e1, K-Locus (15.00 Euro patent fee included)	
8514 Combination Portuguese Water Dog7-14 Gangliosidosis (GM1), Improper coat, Progressive retinal atrophy (eo-PRA), Progressive retinal atrophy* (prcd-PRA)	
8623 Combination Pug Dog7-14 Degenerative myelopathy (DM exon2), Malignant hyperthermia (MH), Necrotizing meningoencephalitis (NME/PDE), Primary lens luxation (PLL), Pyruvate kinase deficiency (PK) (15.00 Euro patent fee included)	
8647 Combination Rhodesian Ridgeback7-14 Degenerative myelopathy (DM exon2), Haemophilia B (factor IX deficiency), Hereditary deafness (EOAD), Juvenile myoclonic epilepsy (JME), B-locus (liver(nose)), D-locus d1 (dilution) (15.00 Euro patent fee included)	
8648 Combination Rottweiler7-14 Degenerative myelopathy (DM exon2), Juvenile laryngeal paralysis & polyneuropathy (JLPP), Leukoencephalomyelopathy (LEMP), Neuroaxonal dystrophy (NAD), X-linked myopathy (XL-MTM), Coat length I (long or short hair) (15.00 Euro patent fee included)	
8570 Combination Russell Terrier 13-14 Juvenile brain disease (JBD), Late onset ataxia (LOA), Spinocerebellar ataxia (SCA)	
8571 Combination Russell Terrier 23-14 Degenerative myelopathy (DM exon2), Juvenile brain disease (JBD), Late onset ataxia (LOA), Primary lens luxation (PLL), Spinocerebellar ataxia (SCA) (15.00 Euro patent fee included)	

8756 Combination Russian Black Terrier3-5 Degenerative myelopathy (DM exon2), Hyperuricosuria (HUU/SLC), Juvenile laryngeal paralysis & polyneuropathy (JLPP) (15.00 Euro patent fee included)	
8928 NEW! Combination Samoyed7-14 Amelogenesis imperfecta (Familial enamel hypoplasia) (FEH), Familial nephropathy* (FN), Progressive retinal atrophy (XL-PRA)	
8652 UPDATE! Combination Shetland Sheepdog7-14 Collie eye anomaly* (CEA), Degenerative myelopathy (DM exon2), Maxillary canine tooth mesioversion (MCM), MDR1 gene variant (Ivermectin hypersensitivity), Progressive retinal atrophy (BBS2-PRA), Progressive retinal atrophy (CNGA1-PRA), von Willebrand disease type 3 (vWD3) (15.00 Euro patent fee included)	
8681 Combination Shiba Inu7-14 GM1-Gangliosidosis (GM1), GM2-Gangliosidosis (GM2), A-locus, E-locus	
8835 Combination Shih Tzu7-14 Macrothrombocytopenia (MTC), Prekallikrein deficiency (KLK), Progressive retinal atrophy (JPH2-PRA), Robinow-like syndrome (DVL2)	
8287 Combination Spanish Waterdog7-14 Brachyuria (stumpy tail), Congenital hypothyroidism with goiter (CHG), Degenerative myelopathy (DM exon2), Neuroaxonal dystrophy (NAD), Progressive retinal atrophy (eo-PRA), Progressive retinal atrophy* (prcd-PRA) (15.00 Euro patent fee included)	
8679 Combination Tibetan Terrier7-14 Degenerative myelopathy (DM exon2), Neuronal ceroid lipofuscinosis (NCL), Pituitary dwarfism, Primary lens luxation (PLL), Progressive retinal atrophy (PRA3), Progressive retinal atrophy (rcd4-PRA) (15.00 Euro patent fee included)	
8836 Combination Vizsla7-14 Degenerative myelopathy (DM exon2), Exfoliative cutaneous lupus erythematosus (ECLE), Neonatal cortical cerebellar abiotrophy (NCCD), Coat length I (long or short hair), Furnishing (15.00 Euro patent fee included)	
8813 Combination Weimaraner7-14 Degenerative myelopathy (DM exon2), Hypomyelination/Shaking puppy syndrome (SPS), Spinal dysraphism (NTD) (15.00 Euro patent fee included)	
8661 UPDATE! Combination Welsh Corgi7-14 Brachyuria (stumpy tail), Chondrodysplasia (CDPA) and -dystrophia (CDDY) (IVDD risk), Degenerative myelopathy (DM exon2), Progressive retinal atrophy (rcd3-PRA), von Willebrand disease type 1 (vWD1) (15.00 Euro patent fee included)	
8814 UPDATE! Combination White Swiss Shepherd Dog7-14 Degenerative myelopathy (DM exon2), MDR1 gene variant (Ivermectin hypersensitivity), Pituitary dwarfism, Coat length I (long or short hair) (15.00 Euro patent fee included)	
8757 Combination Yorkshire Terrier7-14 Chondrodysplasia (CDPA) and -dystrophia (CDDY) (IVDD risk), L-2-hydroxyglutaric aciduria (L2HGA), Primary lens luxation (PLL), Progressive retinal atrophy* (prcd-PRA), Subacute necrotising encephalopathy (SNE)	

DNA Profiling

(sample material: 0.5 - 1 ml EDTA blood)

- 8107 Classic STR DNA profile** (ISAG 2006) 7-14
- 8540 Premium SNP DNA profile** (ISAG 2020) 28-42
from EB or special buccal swabs; incl. „diversity check“ see diversity.labogen.com
- 8109 Parentage check** (excl. DNA profile, each offspring) 14-21
comparison of DNA profiles
- 8212 Biostatistical calculation** (excl. DNA profile, upon request) 14-21
motherless case/relatedness/likelihood; please contact us upfront
- 8211 Breed determination** (please contact us upfront) 14-21
database analysis, breeds upon request

Special analyses

- 8201 Species differentiation** 14-21
+ costs for handling of special material, see service 8028
- 8132 DNA purification and storage** (standard material)
- 8028 Handling of special sample material**
sperm, faeces, tissue, forensic samples

Certificate

- 8791 Digital certificate** (PDF) (charged per report)
with digital copy protection
- 8105 Certificate printout** (charged per test)
copy protected; printed on forgery-proof paper, sent by postal mail; plus shipping costs (SC)
(SCs vary depending on the destination country up to 28.00 Euro)

Genetics - Cat

Hereditary Diseases

(sample material: 0.5 - 1 ml EDTA blood, buccal swabs)

- 8763 Acrodermatitis enteropathica** (AE) 7-14
Turkish Van
- 8239 Alpha-Mannosidosis** (AMD) (Persian) 7-14
- 8609 UPDATE! Autoimmune lymphoproliferative syndrome** (ALPS) 7-14
British Shorthair, Scottish Fold
- 8876 NEW! Blue eyes** 7-14
Maine Coon
- 8873 NEW! Congenital hypothyroidism** (CH) 7-14
all breeds
- 8592 Congenital myasthenic syndrome** (CMS) 7-14
Devon Rex, Sphynx

- 8604 Cystinuria** (all breeds) 7-14
- 8729 Factor XI deficiency** (Maine Coon) 3-5
- 8806 Factor XII deficiency** (F12) (all breeds) 7-14
- 8041 Gangliosidosis** (GM1) 7-14
Balinese, Javanese, Korat, Oriental Shorthair, Peterbald, Seychellois, Siamese, Thai, Tonkinese
- 8149 Gangliosidosis** (GM2) (Burmese) 7-14
- 8864 NEW! Gangliosidosis** (GM2) (Korat) 7-14
- 8113 Glycogen storage disease type 4** (GSD4) 7-14
Norwegian Forest Cat
- 8465 Head defect** (Burmese) 7-14
- 8080 Hypertrophic cardiomyopathy** (HCM1) 3-5
Mutation 1 Meurs (G → C) (Maine Coon)
- 8116 Hypertrophic cardiomyopathy** (HCM3) 3-5
Ragdoll
- 8695 Hypertrophic cardiomyopathy** (HCM4) 3-14
Sphynx
- 8453 Hypokalaemia** 3-5
Australian Mist, Burmese, Cornish Rex, Devon Rex, Singapura, Sphynx, Tonkinese
- 8318 Hypotrichosis and short life expectancy** 7-14
Birman
- 8776 MDR1 gene variant** (all breeds) 3-14
- 8468 UPDATE! Mucopolysaccharidosis type VI** (MPS6) 7-14
Balinese, Birman, Domestic Shorthair, Javanese, Oriental Shorthair, Peterbald, Ragdoll,
Seychellois, Siamese, Thai, Tonkinese
- 8473 Mucopolysaccharidosis type VII** (MPS7) 7-14
all breeds
- 8461 Myotonia congenita** (all breeds) 7-14
- 8349 Osteochondrodysplasia** (OCD) 7-14
Scottish Fold
- 8046 Polycystic kidney disease** (PKD) 3-5
Angora, Birman, British Short- and Longhair, Chartreux, Colourpoint, Exotic Shorthair,
Persian, Ragdoll, Russian Blue, Scottish Fold, Selkirk Rex
- 8874 NEW! Polydactyly** 7-14
all breeds
- 8395 Primary congenital glaucoma** (PCG) 7-14
Siamese
- 8331 Progressive retinal atrophy** (b-PRA) 3-14
Bengal
- 8593 Progressive retinal atrophy** (pd-PRA) 3-14
Angora, Birman, British Short- and Longhair, Chartreux, Colourpoint, Exotic Shorthair,
Persian, Ragdoll, Russian Blue, Scottish Fold, Selkirk Rex

8117 Progressive retinal atrophy (rdAc-PRA)..... 3-5
Abyssinian, American Curl/Wirehair, Balinese, Bengal, Colourpoint, Cornish Rex, Javanese, Munchkin, Ocicat, Oriental Shorthair, Peterbald, Seychellois, Siamese, Singapura, Somali, Thai, Tonkinese

8469 Progressive retinal atrophy (rdy-PRA)..... 7-14
Abyssinian, Ocicat, Somali

8047 Pyruvate kinase deficiency (PK)..... 3-14
Abyssinian, Angora, Bengal, Domestic Shorthair, Egyptian Mau, LaPerm, Maine Coon, Norwegian Forest Cat, Ocicat, Savannah, Siberian, Singapura, Somali

8808 UPDATE! Skeletal dysplasia (SD) 7-14
British Shorthair, Scottish Fold

8123 Spinal muscular atrophy (SMA)..... 7-14
Maine Coon

Test Combinations Cat

(sample material: 0.5 - 1 ml EDTA blood, buccal swabs)



9330 NEW! LABOGenetics XXL Cat 10-14
all breeds (test examines more than 50 genetic variants: genetic diseases, risk factors, coat colours and traits, genetic blood group; detailed information under www.laboklin.nl/labogenetics-xxl-cat) (request special swab in advance)

8350 Combination hereditary diseases cat..... 7-14
HCM1, HCM3, GSD4, PK, PKD, rdAc-PRA, SMA, genetic blood group

8280 Combination coat colours cat..... 3-14
agouti, burma, mink, chocolate, cinnamon, dilution, siam

Breed Specific Combinations

(sample material: 0.5 - 1 ml EDTA blood, buccal swabs)

8717 Combination Bengal 7-14
Genetic blood group, Progressive retinal atrophy (b-PRA), Progressive retinal atrophy (rdAc-PRA), Pyruvate kinase deficiency (PK)

8281 Combination coat colours Bengal..... 7-14
charcoal, chocolate, cinnamon, dilution, snow

8716 Combination Birman..... 7-14
Genetic blood group, Hypotrichosis and short life expectancy, Mucopolysaccharidosis type 6 (MPS6), Polycystic kidney disease (PKD), Progressive retinal atrophy (pd-PRA)

8714 Combination British Short-/Longhair 7-14
Genetic blood group, Autoimmune lymphoproliferative syndrome (ALPS), Polycystic kidney disease (PKD), Progressive retinal atrophy (pd-PRA)

8715 Combination Burmese..... 7-14
Genetic blood group, Gangliosidosis (GM2), Head defect, Hypokalaemia

8838 Combination Devon Rex..... 7-14
genetic blood group, Congenital myasthenic syndrome (CMS), Coat length (long or short hair), Coat variant Sphynx / Devon Rex (SPH/DRX)

8718 Combination Maine Coon..... 7-14
Genetic blood group, Factor XI deficiency (F11), Hypertrophic cardiomyopathy (HCM1), Pyruvate kinase deficiency (PK), Spinal muscular atrophy (SMA)

8720 Combination Norwegian Forest Cat..... 7-14
Genetic blood group, Glycogen storage disease type 4 (GSD4), Pyruvate kinase deficiency (PK), Amber

8713 Combination Persian..... 7-14
Genetic blood group, Alpha-Mannosidosis (AMD), Polycystic kidney disease (PKD), Progressive retinal atrophy (pd-PRA)

8719 Combination Ragdoll..... 7-14
Genetic blood group, Hypertrophic cardiomyopathy (HCM1, HCM3), Polycystic kidney disease (PKD), Progressive retinal atrophy (pd-PRA)

8722 Combination Siam/Oriental 7-14
Genetic blood group, Gangliosidosis (GM1), Mucopolysaccharidosis type 6 (MPS6), Primary congenital glaucoma (PCG), Progressive retinal atrophy (rdAc-PRA)

8840 Combination Siberian..... 7-14
Genetic blood group, Pyruvate kinase deficiency (PK), Colourpoint, Dilution

8723 Combination Sphynx 7-14
Genetic blood group, Congenital myasthenic syndrome (CMS), Hypertrophic cardiomyopathy (HCM4), Hypokalaemia

Coat Colour / Coat Length / Coat Structure

(sample material: 0.5 - 1 ml EDTA blood, buccal swabs)

If more than one characteristic is requested, we charge ...€ for the first and ...€ (both prices ex. VAT) for each additional test (not possible for test combinations and test via partner laboratory).

8170 Coat colour amber 3-5
Norwegian Forest Cat

8257 Coat colour brown (chocolate/cinnamon) 3-5
all breeds

8774 Coat colour copal (Kurilian Bobtail) 7-14

8606 Coat colour russet (Burmese) 7-14

8090 Coat colour variant agouti (all breeds)..... 3-5

8242 Coat colour variant albino (all breeds) 7-14

8442 Coat colour variant charcoal (Bengal)..... 7-14

8258 Coat colour variant colourpoint (siam/mink/burma) 3-14
all breeds except Bengal

8099 Coat colour variant dilution 3-5
all breeds

8591	Coat colour variant dominant white/white spotting	7-14
	all breeds	
8775	Coat colour variant gold (sunshine, extreme sunshine)	7-14
	Kurilian Bobtail, Siberian	
8522	Coat colour variant gold (copper)	7-14
	British Shorthair	
8255	Coat colour variant snow (Bengal)	7-14
8778	Coat colour variant tabby (mackerel, blotched).....	7-14
	all breeds	
8777	Coat colour variant ticked (all breeds)	3-14
8147	Coat length (long or short hair)	7-14
	all breeds	
8629	Coat variant curly (Selkirk Rex).....	7-14
8243	Coat variant Sphynx/Devon Rex (SPH/DRX).....	7-14
	Canadian Sphynx, Devon Rex	

Blood Group

8121	Genetic blood group determination (cat) Patent/License LABOKLIN	3-5
	analysis: allele b (all breeds except Domestic Shorthair) and allele c (Ragdoll only)	
618	Serological blood group testing	**
	only EDTA blood (all breeds)	

DNA Profiling

(sample material: 0.5 - 1 ml EDTA blood)

8175	DNA profile (genetic fingerprint) (ISAG 2006).....	7-14
	all breeds	
8109	Parentage check (excl. DNA profile, each offspring).....	14-21
	comparison of DNA profiles	
8611	Breed determination (data base analysis + DNA profile).....	21-28
	breeds upon request or www.laboklin.nl/rasanalyse	

Special analyses

8201	Species differentiation	14-21
	+ costs for handling of special material, see service 8028	
8132	DNA purification and storage (standard material)	
8028	Handling of special sample material	
	sperm, faeces, tissue, forensic samples	

Certificate

8791	Digital certificate (PDF) (charged per report)	
	with digital copy protection	
8105	Certificate printout (charged per test)	
	copy protected; printed on forgery-proof paper, sent by postal mail; plus shipping costs (SC) (SCs vary depending on the destination country up to 28.00 Euro)	

Equine / Camelid Specific Tests

Profiles / Screenings

7700	UPDATE! Large Screening	S+NaFB/1ml	2-3
	AP, γ -GT, bilirubin, cholesterol, triglycerides, glucose, AST, LDH, GLDH, CK, protein, albumin, globulins, alb/glob ratio, urea, crea, Ca, Mg, Na, K, Cl, Fe, PO ₄ , Cu, Zn, Se		
	+ Complete Blood Count	+EB/1ml+BS.....	**
7702	UPDATE! Large Screening + SAA	S+NaFB/1ml	2-3
	AP, γ -GT, bilirubin, cholesterol, triglycerides, glucose, AST, LDH, GLDH, CK, protein, albumin, globulins, alb/glob ratio, urea, crea, Ca, Mg, Na, K, Cl, Fe, PO ₄ , Cu, Zn, Se, SAA		
	+ Complete Blood Count	+EB/1ml+BS.....	**
1060	Equine Small Screening	S/1ml.....	**
	GLDH, γ -GT, AST, LDH, CK, urea, crea, protein, triglycerides		
	+ Complete Blood Count	+EB/1ml+BS.....	**
7500	UPDATE! Performance Profile	S+NaFB/1ml	2
	AP, γ -GT, GLDH, bilirubin, cholesterol, triglycerides, glucose, SAA, AST, LDH, CK, protein, albumin, globulins, alb/glob ratio, urea, crea, PO ₄ , Ca, Mg, Na, K, Cl, Fe		
	+ Complete Blood Count	+EB/1ml+BS.....	**
1080	Senior Profile	S+NaFB/1ml	2-3
	γ -GT, GLDH, DGGR-lipase, bilirubin, triglycerides, glucose, protein, albumin, globulins, alb/glob ratio, urea, crea, PO ₄ , Ca, Zn, Se, SDMA		
	+ Complete Blood Count	+EB/1ml+BS.....	**
2528	Foal Profile	S/1ml.....	2
	triglycerides, urea, crea, protein, serum protein electrophoresis, γ -GT, Na, Ca, Mg, PO ₄		
	+ Complete Blood Count	+EB/1ml+BS.....	**
4010	Mineral Profile II	S/3ml.....	2-4
	Ca, Na, PO ₄ , Mg, Zn, Cu, Se, K, Cl, Fe, Mn		
1082	NEW! Iron Metabolism Profile (horse) !	S/0.5ml	3-6
	Fe, ferritin, hepcidin, iron saturation, UIBC, TIBC, SAA		
7710	UPDATE! Large Screening (camelids).....	S+NaFB/1ml	2-3
	AP, γ -GT, GLDH, bilirubin, cholesterol, triglycerides, glucose, AST, LDH, CK, protein, albumin, globulins, alb/glob ratio, urea, crea, Ca, PO ₄ , Mg, Na, K, Cl, Fe, Cu, Zn, Se		
	+ Complete Blood Count	+EB/1ml+BS.....	**
1203	NEW! Hepatic Lipidosis (camelids).....	S+NaFB/1ml	2
	GLDH, γ -GT, ALT, AST, AP, bilirubin, cholesterol, urea, bile acids, protein, albumin, globulins, alb/glob ratio, glucose, triglycerides, β -HBA, NEFA		

Please note: ! = cooled upon arrival (For further information, see p. 65, 66)

2532 PPID Profile (Equine Cushing) !..... EP!+S!+NaFB/2ml.....2
 insulin, ACTH, glucose, fructosamines, triglycerides, γ -GT, RISQI, MIRG, I/G ratio
 (serum preferably frozen)

+ **Complete Blood Count** +EB/1ml+BS.....**

2531 EMS Profile (Equine Metabolic Syndrome) !..... S!+NaFB/2ml.....2
 insulin, glucose, fructosamines, RISQI, MIRG, I/G ratio (serum preferably frozen)

+ **Complete Blood Count** +EB/1ml+BS.....**

561 Neurology (horse, donkey) S/1ml+EB,LQ,A.....3-4
 SAA, Ab: West Nile virus IgG + IgM, TBE virus IgG + IgM,
 PCR: Borna virus, EHV-1 + 4

Immunology / Inflammation

180 Coombs Test (direct) EB/0.5ml2

1210 Immune Status (horse) EB,HB/3ml+BS2
 complete blood count, T-cells, B-cells, CD4+,
 CD8+, ratio CD4/CD8; max 48h old samples

748 IgG (foal, cria) S/0.5ml2

1041 Serum Amyloid A (SAA)..... S/0.5ml2

Tumour markers

1038 Thymidine Kinase ! S/0.5ml2

1800 UPDATE! Tumour Diagnostics Small ! S/1ml.....2
 thymidine kinase, SAA, Ca, serum protein electrophoresis

612 Alpha-Fetoprotein (AFP)..... S/1ml.....2

Liver

1001 UPDATE! Liver 1 (AST, GLDH, γ -GT, bile acids)..... S/0.5ml**

1102 Liver 2 S+NaFB/1ml**
 GLDH, AST, AP, γ -GT, bilirubin total, cholesterol, urea, bile acids,
 protein, albumin, globulins, alb/glob ratio, glucose, Na, K, Cl

8918 NEW! Hepatotropic Viruses (PCR) S,EB,L2-4
 equine parvovirus, equine hepacivirus

For more tests, see dog / cat page 10

Kidney / Urine

1081 NEW! Kidney Large Animals S/0.5ml**
 urea, crea, protein, albumin, globulins, alb/glob ratio, Ca, PO₄

2680 γ -GT/Creatinine Ratio (horse) H/1ml2

2278 Fractional Electrolyte Excretion..... H+S/0.5ml2-3

For more tests, see dog / cat page 9

Selection of New Services for Horses / Camelids

Luteo-placental shift and placental function in the pregnant mare

- The determination of the DHP/progesterone ratio with the help of a 5 α -dihydroprogesterone (DHP) determination allows a statement about the time of the luteo-placental shift between the 100th and 120th day of pregnancy.
- Understanding the timing of the luteo-placental shift helps in deciding on the appropriate period for progesterone administration in problem mares during pregnancy.
- Absolute DHP values (follow-up examinations) allow an evaluation of placental function for diseases during advanced pregnancy.

Pathogen diagnostics for liver diseases in horses

- In addition to equine parvovirus, PCR detection of **equine hepacivirus** is now available.
- Both assays can be carried out using serum, EDTA blood or liver tissue and are available as single assays or in the **hepatotropic viruses** profile.
- We also offer serological detection of antibodies against the **common liver fluke (Fasciola hepatica)** in horses, new- and old-world camels. The antibody test is more sensitive than a faecal examination, since faecal examinations can be falsely negative due to sporadic excretion of eggs.

Updated profiles for foals

- Both the foal faecal profile and the PCR foal diarrhoea pathogen profile have been updated based on the results of our in-house studies.

- The first includes the most important microbiological parameters and also the examination for various parasites.
- The second is ideally suited as a supplement to a previous bacteriological and/or parasitological examination.

Taylorella asinigenitalis - underdiagnosed relative?

- Taylorella (T.) asinigenitalis* is closely related to *T. equigenitalis* and is found on the genital mucosa of solipeds (mainly donkeys, more rarely horses).
- Stallions act as asymptomatic carriers. Transmission occurs via mating. *T. asinigenitalis* is usually described as apathogenic, but there are pathogenic strains that can cause severe purulent endometritis in mares. In donkey mares the infection is usually asymptomatic.
- For a comprehensive breeding hygiene examination, a supplementary PCR for *T. asinigenitalis* is recommended in addition to the PCR for *T. equigenitalis* to recognise outbreaks at an early stage.

Vitamin D2/D3 (25-OH) - new test only for camelids

- For alpacas, llamas and camels, vitamin D analysis is now carried out using HPLC. This allows measurements at higher serum concentrations, which are becoming more frequent in these species due to substitution.
- Vitamin D2 and vitamin D3 are tested separately.

Haematology

- 35 Complete Blood Count** (incl. diff.) EB,HB/1ml+BS** (Camelids: 2)
- 316 Crossmatch Test** (horse)..... EB+S/3ml 2-3
<48h, on demand
- 2325 Blood Donor Profile** (horse)..... EB+S+NaFB+CP+H/2ml.....4
complete blood count, fibrinogen, urea, crea, Na, K, Ca, PO₄, bilirubin, ALT, AP, AST, GLDH,
protein, albumin, glucose / Ab: equine infectious anaemia v. (Coggins test),
equine viral arteritis v. (VNT), babesia (c-ELISA) / urinalysis

For more tests, see dog / cat page 9

Coagulation

see dog / cat page 9

Vitamins (Llama, Alpaca, Camel)

- 4007 Large Vitamin Profile** (llama, alpaca, camel) ! EB,HB!+S/3ml..... 6
(preferably frozen)
vitamins A, B1, B2, B6, B12, D2/D3 (25-OH), E, folic acid
- 4005 Small Vitamin Profile** (llama, alpaca, camel) S/3ml..... 6
vitamins A, D2/D3 (25-OH), E, B12, folic acid

- 2560 NEW! Vitamin** (25-OH) **D2/D3** (llama, alpaca, camel)....S/1ml.....3-6

Vitamin tests for horses and more tests for llama, alpaca and camel see dog / cat page 15

Muscular Disease

- 4001 UPDATE! Muscular Screening** S/1ml.....**
CK, AST, LDH, Na, K, Cl, Ca, PO₄, Mg, Fe
- 4006 UPDATE! Extended Screening** S/3ml.....4
Muscular Screening + vitamin E + Se

For more test, see dog / cat page 11, Hereditary Diseases horse page 42

Single Determinations - Clinical Chemistry

- 128 Bile Acids** S/0.5ml**
- 252 Iodine/Creatinine Ratio** H/1ml Tue/Fri

For more tests, see dog / cat page 14

Thyroid / Parathyroid

- 137 Thyroxine T4** S/0.5ml**
- 126 Free T4** (fT4) S/0.5ml2
- 127 Triiodothyronine** (T3)..... S/0.5ml2
- 114 Parathormone** (PTH) !..... S/1ml.....2
preferably frozen

Please note: ! = cooled upon arrival (For further information, see p. 65, 66)

Pregnancy

- 124 PMSG** (horse, donkey*) S/0.5ml 4-11
from day 45 to 100 (turnaround time horse: Tue/Fri; donkey*: 7 - 10 days)
- 122 Oestrone Sulphate** (horse, donkey, llama, alpaca)S/1ml..... 6
horse, donkey: 110th day to 1 week prior to birth;
llama, alpaca: from 10/11th month of pregnancy
- 135 Progesterone** (only camelids) S/0.5ml**
from day 21
- 1083 NEW! Luteo-placental Shift** (horse) S/1ml..... 6
placental function: 5α-DHP/progesterone ratio

Sex Hormones

- 2212 Anti-Müllerian Hormone** (AMH) !..... S/0.5ml2
- 134 Oestradiol**..... S/0.5ml2
- 135 Progesterone**..... S/0.5ml**
- 136 Testosterone** S/0.5ml3-4
- 1360 HCG Stimulation Test**..... S/2x0.5ml3-4
2 x testosterone
- 1064 NEW! Granulosa Cell Tumour** ! S/2ml3-4
testosterone, AMH, progesterone

Adrenal Cortex

- 18 Cortisol**..... S/0.5ml**
- 141 ACTH Stimulation Test** (2 x cortisol) S/2x0.5ml**
- 142 Dexamethasone Suppression Test** S/2x0.5ml**
low dose
- Dexamethasone Suppression Test** S/3x0.5ml**
low dose
- 121 ACTH endogenous** ! EP/0.5ml2
- 1186 TRH Stimulation Test with ACTH** (horse) ! EP/2x0.5ml2
- 2532 PPID Profile** (Equine Cushing) !..... EP!+S!+NaFB/2ml.....2
insulin, ACTH, glucose, fructosamines, triglycerides, γ-GT, RISQI, MIRG, I/G ratio
(serum preferably frozen)
- + Complete Blood Count** +EB/1ml+BS.....**

Pancreas - Endocrine

- 609 Insulin** (horse) ! (preferably frozen) S/1ml.....2
- 1185 Oral Glucose Test** (with insulin determination) !... S/1ml.....2
preferably frozen
- 2531 EMS Profile** (Equine Metabolic Syndrome) !..... S!+NaFB/2ml.....2
insulin, glucose, fructosamines, RISQI, MIRG, I/G ratio (serum preferably frozen)
- + Complete Blood Count** +EB/1ml+BS.....**

1059 **NEW! Karo® Light Syrup Test** (with insulin determination) !....S/1ml2
preferably frozen

1058 **NEW! Insulin Tolerance Test** (with 2 x glucose determination)...2 x NaFB/1ml*

Serology (Antibodies)

1572 **Anaplasma phagocytophilum** EP,HP,S/0.5ml2

249 **Anoplocephala perfoliata** S/0.5ml 6

576 **Babesia - IFAT** (for export only) EP,HP,S/0.5ml2
Th. equi/B. caballi

2576 **Babesia - c-ELISA** (Th. equi/B. caballi)..... EP,HP,S/0.5ml 3-4

1576 **Babesia - CFT*** (Th. equi/B. caballi) EP,HP,S/0.5ml 6

176 **Borrelia** (IgG + IgM) EP,HP,S/0.5ml2

833 **Borrelia Blot** HP,S/0.5ml4

5010 **Bornavirus*** S/0.5ml 8

372 **Corynebacterium pseudotuberculosis*** S/1ml..... 6
llama, alpaca

2060 **Dourine*** (Trypanosoma equiperdum)..... S/1ml..... 6

3131 **Equine Arteritis Virus/EVA** (VNT) S/0.5ml 6

348 **Equine Herpesvirus 1/4** (EHV 1/4) HP,S/0.5ml 3-4

2546 **Equine Infectious Anaemia V.** (c-ELISA)..... S/2ml2

3130 **Equine Infectious Anaemia V.** (Coggins test) S/0.5ml4

1084 **NEW! Fasciola hepatica*** S/1ml..... 3-6

2061 **Glanders*** (Burkholderia mallei)..... S/1ml..... 6

5000 **Influenza A Virus*** S/0.5ml 6

1057 **NEW! Larval Cyathostomiasis*** S/1ml..... 8

157 **Leptospira** (MAT) EP,HP,S/0.5ml2

564 **Listeria** (Type 1 + 4b) EP,HP,S/0.5ml2

320 **Salmonella Abortusequi*** S/1ml..... 6

1295 **Streptococcus equi** (quantitative)..... S/0.5ml 2-4

2544 **Tetanus** (vaccination titre) S/2ml2

555 **Tick-borne Encephalitis V.** (TBEV) (IgG) S/0.5ml Tue/Fri

556 **Tick-borne Encephalitis V.** (TBEV) (IgM) S/0.5ml Tue/Fri
only serum

557 **Tick-borne Encephalitis V.** (TBEV) (IgG, CSF).... LQ/0.2ml Tue/Fri

2072 **Trypanosoma evansi**..... S/0.5ml2

2091 **West Nile Virus** (IgG + IgM) (horse) S/1ml..... 3-4

1252 **Camelid Abortion Profile** S/2ml 2-4
leptospira, chlamydia, Toxoplasma gondii

PCR Assays

8182 **Anaplasma phagocytophilum** EB,Z 2-4

8019 **Babesia** (Piroplasmida) EB,Z 2-4
also determines theileria; incl. species diff.

8343 **Bornavirus** LQ,KW,EB 2-4

8010 **Borrelia** HT,LQ,SV,Z 2-4

8919 **NEW! Clostridioides difficile toxin A + B** FA 2-4

8916 **NEW! Clostridium perfringens alpha toxin**.... FA 2-4

8914 **NEW! Clostridium perfringens enterotoxin**.... FA 2-4

8917 **NEW! Clostridium perfringens net F** FA 2-4

8821 **Dermatophilus congolensis** HT,K,GW 3-5

8489 **UPDATE! Dermatophytes** HA,HT,K 3-5
incl. species differentiation

8230 **Equine Arteritis Virus** (EVA) A,Sp,EB 2-4

8341 **Equine Coronavirus** (ECoV) FA 2-4

8906 **NEW! Hepacivirus** (EqHV) S,EB,L 2-4

8356 **Herpesvirus 1** (EHV-1) A,LQ,AM,EB 2-4
incl. differentiation of neuropathogenic variant

8357 **Herpesvirus 2** (EHV-2) A 2-4

8352 **Herpesvirus 3** (EHV-3) A,GW 2-4

8358 **Herpesvirus 4** (EHV-4) A,EB 2-4

8359 **Herpesvirus 5** (EHV-5) A,EB 2-4

8223 **Influenza A Virus** (mammals) A 2-4

8059 **Lawsonia intracellularis** FA 2-4

8031 **Leptospira** H+EB,AM,KW 2-4

8827 **Listeria monocytogenes** AM,A 2-4

8176 **Mycoplasma haemolamae** EB 2-4
llama, alpaca

8238 **Papillomavirus** (BPV 1/2, equine sarcoid) HA,HT,K 2-4

8896 **NEW! Papillomavirus** (EcPV, horse) HT 2-4

8699 **Parvovirus** (EqPV-H, horse) EB,S,L 2-4

8102 **Rhodococcus hoagii** (formerly R. equi) A,FA 2-4
incl. vapA

8891 **NEW! Rotavirus A** FA 2-4

8060 **Salmonella** FA 2-4

8556	Streptococcus equi equi (strangles)	A,LV	2-4
8171	Streptococcus equi equi/zoepidemicus	A,LV	2-4
8021	Tick-borne Encephalitis Virus (TBEV)	LQ,S,Z.....	2-4
8296	West Nile Virus	EB,LQ.....	2-4

Tissue samples are also suitable for PCR assays, depending on the pathogen distribution.

PCR Profiles

8415	UPDATE! Abortion (horse).....	AM,A.....	2-4
	EHV-1, EHV-4, EVA, leptospira, Listeria monocytogenes		
8431	Abortion (camelids)	AM,A.....	2-4
	leptospira, Toxoplasma gondii, chlamydia		
8339	Anaemia Small	EB.....	2-4
	Anaplasma phagocytophilum, piroplasmida (babesia, theileria; incl. species diff.)		
8209	Eye (horse) (EHV-2, EHV-5).....	A.....	2-4
8918	NEW! Hepatotropic Viruses	S,EB,L	2-4
	equine parvovirus, equine hepacivirus		
8334	Respiratory I (horse).....	A.....	2-4
	EHV-1, EHV-4, influenza A virus, Strept. equi equi/zoepidemicus		
8684	Respiratory II (horse).....	A+FA.....	2-4
	EHV-1, EHV-4, influenza A virus, Streptococcus equi equi, equine coronavirus		
8224	UPDATE! Respiratory III (horse)	A.....	2-4
	EHV-1, EHV-4, Strep. equi equi/zoepidemicus		
8665	Respiratory IV (horse)	A,EB.....	2-4
	EHV-1, EHV-4		
8225	Respiratory Foal	A.....	2-4
	EHV-1, EHV-4, influenza A virus, Rhodococcus hoagii (formerly R. equi) incl. vapA		
8905	NEW! Skin (horse)	HT,K.....	3-5
	Dermatophytes, Dermatophilus congolensis		
8086	Uveitis (horse)	KW	2-4
	leptospira Ab, PCR: leptospira, EHV-1		

Microbiology

Swab / Aspirate

see dog / cat page 18

Skin / Hair

8821	Dermatophilus congolensis (PCR)	HT,K,GW	3-5
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For more tests, see dog / cat page 18

Breeding Hygiene

184	Reproductive Health (bacteriology) (per swab) ...	TM	3-4
194	Reproductive Health + Mycology	TM	3-8
	per swab		
158	CEM (culture).....	TM	8
	per swab (turnaround time: export to Canada: 2 weeks)		
159	Reproductive Health + CEM (culture).....	2xTM	3-8
	swab from cervix + swab from clitoris (turnaround time CEM: export to Canada: 2 weeks)		
8867	NEW! Taylorella asinigenitalis (PCR)	TM,Sp	2-4
8229	Taylorella equigenitalis (CEM) (PCR).....	TM,Sp	2-4
8550	CEM PCR Profile Stallion 1	3xTM	2-3
	penile sheath, urethra, fossa glandis		
8551	CEM PCR Profile Stallion 2	3xTM+Sp.....	2-3
	sperm, penile sheath, urethra, fossa glandis		
8865	NEW! CEM PCR Profile Stallion 3	4xTM	2-3
	sinus urethralis, urethra, fossa glandis, preputium		
8554	CEM PCR Profile Mare 1	2xTM	2-3
	fossa clitoridis, sinus clitoridis		
8680	CEM PCR Profile Mare 2	3xTM	2-3
	fossa clitoridis, sinus clitoridis, cervix		

For more tests, see Microbiology page 18

Digestive Disorders and Diarrhoea

Microbiology

1669	UPDATE! Large Faecal Profile (horse)	FA	3-4
	bacteriology incl. salmonella, mycology, gas producers, endoparasites, PCR: equine coronavirus, Clostridium perfringens enterotoxin, Clostridioides difficile toxin A + B		
1664	Small Faecal Profile	FA	3-4
	bacteriology incl. salmonella, mycology, endoparasites		
1291	Dysbiosis Analysis (horse)	FA	4-6
	PCR: key bacteria microbiome quantitative		
8631	UPDATE! Foal Diarrhoea Pathogens (PCR).....	FA	2-4
	rotavirus A, Clostridium perfringens netF, Clostridioides difficile toxin A + B, Rhodococcus hoagii (R. equi) incl. vapA, equine coronavirus, Lawsonia intracellularis		
1663	UPDATE! Foal Faecal Profile	FA	3-4
	bacteriology incl. salmonella, endoparasites incl. protozoa, strongyloides, PCR: rotavirus A, Cl. perfringens enterotoxin, Cl. perfringens netF, Clostridioides difficile toxin A + B		
1172	Camelid Faecal Profile	FA	3-4
	bacteriology incl. salmonella, mycology, gas producers, endoparasites incl. coccidia, cryptosporidia, rotavirus, coronavirus		

Parasitology

1183	Endoparasite Profile (horse, camelids) FA2 flotation, SAFC, modified McMaster
149	Endoparasites (flotation and SAFC) FA ▪
2632	Modified McMaster FA2 egg count per gram of faeces
585	Baermann Test (lungworm larvae) FA,BAL 3
439	Larval Culture FA 8 differentiation large/small strongyles

For more tests, see dog / cat page 17

Virology

172	Rotavirus (EIA) FA 2-3
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For more tests, see PCR assays page 40

Single Determinations - Microbiology

see dog / cat page 16

Autovaccines

see dog / cat page 19

Maldigestion / Malabsorption

1400	Particle Size FA2
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Pathology

260	Endometrial Biopsy (mare) FGW 4-8
261	Endometrial Biopsy + Reproductive Health + Mycology (mare)..... TM+FGW...4-8
293	BAL Profile (horse) TM+OT+BAL/1ml 3-8 cytology, bacteriology, mycology

For more tests, see dog / cat page 22

Drugs / Doping / Toxicology

2092	Screening for Doping-relevant Substances* S/20ml15-22
2093	Antiphlogistics Profile* S/20ml15-22
2098	Sedatives* S/10ml 11-15 further drug tests on demand
1204	Heavy Metal Toxicity Screening S+EB/2ml+H/5ml 8 arsenic, lead, cadmium, chromium, copper, manganese, mercury, thallium, zinc
97	Meadow Saffron (Colchicine) H/1ml 3-4
484	NEW! Ragwort (Senecionine) H/1ml 2-4
263	Sycamore (Hypoglycin A) S/1ml 2-3

Allergy - Profiles Horse

7146	Allergy Profile Skin S/3ml 8 seasonal, perineal, insect, food panel
7149	Allergy Profile Respiratory S/1ml 3 seasonal, perennial panels
7156	Nordic Allergy Profile Horse S/3ml 3-4 insects, mites and moulds, pollen from northern grasses, weeds and trees; incl. CHO test and CCD blocking as needed

Allergy - Screening Test Horse

7105	Allergy Screening Test S/1.5ml 3 mites, pollen, moulds, insects
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Allergy - Main Tests Horse

7106	Seasonal Panel S/0.5ml 3 grasses, weeds, tree pollen
7107	Perennial Panel (moulds, mites) S/0.5ml 3
7110	Insect Panel S/1ml 4 Simulium, Culex, Tabanus, Musca, Culicoides
7116	Feathers/Hair/Epithelia S/0.5ml 8 cat, dog, rabbit, guinea pig, parrot, feather mix

Allergy - Additional Tests Horse

6108	Food Panel S/1ml 8 IgE and IgG against wheat, barley, oats, corn, molasses, soy, yeast, alfalfa
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Allergy - PAX Horse

7020	NEW! PAX Complete (Environmental) S/0.5ml 3-5
7021	NEW! PAX Complete (Food) S/0.5ml 3-5
7022	NEW! PAX Complete (Environmental + Food) S/0.5ml 3-5

Allergen-specific Immunotherapy Horse (ASIT; Hyposensitization)

Please send a **veterinary prescription** together with your order.
The prescription is mandatory for us to be able to deliver your order!

6511	Artuvetrin® 1-4 allergens14-21 sufficient for 10 months; shipping fee included
6512	Artuvetrin® 5-8 allergens14-21 sufficient for 10 months; shipping fee included

Genetics - Hereditary Diseases Horse

(sample material: 0.5 - 1 ml EDTA blood or hair roots from mane or tail)

8248	Androgen insensitivity syndrome (AR1) 7-14 Quarter Horse
8842	Androgen insensitivity syndrome (AR2, AR3, AR4, AR5)* 28-42 Tennessee Walking Horse, Thoroughbred, Warmblood

8214	Cerebellar abiotrophy (CA)	3-5
	Arabian Horse	
8849	UPDATE! Congenital stationary night blindness (CSNB2)*	28-42
	American Standardbred, Missouri Fox Trotter, Tennessee Walking Horse	
8848	Distichiasis* (Friesian Horse)	28-42
8553	Dwarfism (Frisian Horse)	7-14
8548	Dwarfism (ACAN, Chondrodysplasia)	7-14
	Miniature Horse, Shetland Pony	
8160	Equine malignant hyperthermia (EMH)	3-5
	all breeds	
8454	Foal immunodeficiency syndrome (FIS)	7-14
	Dales Pony, Fell Pony	
8137	Glycogen branching enzyme deficiency (GBED)	3-5
	Appaloosa, Paint Horse, Quarter Horse	
8139	Hereditary equine regional dermal asthenia (HERDA)	3-5
	Appaloosa, Quarter Horse, Paint Horse	
8482	Hereditary myotonia	3-14
	New Forest Pony	
8464	Hoof wall separation disease (HWSD)	3-5
	American Miniature Horse, Connemara Pony, German Riding Pony	
8501	Hydrocephalus (Friesian Horse)	7-14
8000	Hyperkalemic periodic paralysis (HYPP)	3-5
	Appaloosa, Paint Horse, Quarter Horse	
8696	Idiopathic hypocalcaemia	7-14
	Thoroughbred	
8293	Immune mediated myositis & MYH1 myopathy (MYHM)	7-14
	Appaloosa, Quarter Horse, Paint Horse	
8072	Junctional epidermolysis bullosa (JEB1)	7-14
	Belgian Draft Horse	
8844	Junctional epidermolysis bullosa (JEB2)*	28-42
	American Saddlebred	
8231	Lavender foal syndrome (LFS)	3-5
	Arabian Horse	
8061	Lethal white foal syndrome (OLWS)	3-5
	Appaloosa, Paint Horse, Quarter Horse	
8594	Naked foal syndrome (NFS)	7-14
	Akhal-Teke	
8850	Occipitoatlantoaxial malformation (OAAM)*	28-42
	Arabian Horse	
8292	Ocular squamous cell carcinoma (SCC)	7-14
	Belgian Horse, Haflinger	
8138	Polysaccharid storage myopathy type 1 (PSSM) Patent/License LABOKLIN.....	3-5
	all breeds	

8039	Severe combined immunodeficiency (SCID)	7-14
	Arabian Horse	
8854	Skeletal atavism (SA)*	28-42
	Miniature Horse, Shetland Pony	
8470	Warmblood fragile foal syndrome (WFFS) Patent/License LABOKLIN	3-5
	Appaloosa, Haflinger, Mustang, Paint Horse, Quarter Horse, Thoroughbred, Warmblood breed	
Genetic Test Combinations / Hereditary Diseases Horse		
(sample material: 0.5 - 1 ml EDTA blood or hair roots from mane or tail)		
8300	4-panel test	3-5
	GBED, HERDA, HYPP, EMH	
8267	5-panel test	3-5
	GBED, HERDA, HYPP, PSSM, EMH	
8252	Combination Arabian Horse	3-14
	CA, LFS, SCID	
8671	Combination Paint Horse	3-5
	EMH, GBED, HERDA, HYPP, OLWS, PSSM	
8372	Combination Quarab	3-14
	CA, GBED, HERDA, PSSM, SCID	
8250	Combination Quarter Horse/Appaloosa	3-5
	GBED, HERDA, HYPP, PSSM	
8253	Combination Warmblood	3-5
	PSSM, WFFS	
Coat Colour / Coat Structure Horse		
(sample material: 0.5 - 1 ml EDTA blood or hair roots from mane or tail)		
If more than one characteristic is requested, we charge ...€ for the first and ...€ (both prices ex. VAT) for each additional test (not possible for test combinations and test via partner laboratory; * = partner laboratory).		
8070	Agouti (all breeds)	7-14
8140	Appaloosa pattern 1 (Appaloosa).....	3-5
8603	Brindle 1 (all breeds)	7-14
8463	Camarillo white - W4* (all breeds)	28-42
8174	Champagne (all breeds)	3-5
8071	Cream (all breeds)	3-5
8298	Curly (all breeds)	7-14
8422	Dominant white W5, W10, W13, W20, W22* (all breeds).....	28-42
8227	Dun (all breeds).....	7-14
8159	Graying*	28-42
	all breeds (hair roots from mane or tail only)	

8586	Incontinentia pigmenti (Hyperpigmentation) (all breeds)	7-14
8433	Leopard complex (all breeds)	3-5
8726	Mushroom (Shetlandpony).....	7-14
8183	Pearl (all breeds)	7-14
8048	Red factor (Chestnut) (all breeds).....	3-5
8228	Roan zygosity*	28-42
	breeds upon request	
8148	Sabino-1 (all breeds)	7-14
8213	Silver dapple (all breeds)	7-14
8616	Snowdrop (Tinker/Gypsy Cob)	7-14
8417	Splashed white (SW 1-4) (all breeds)	7-14
8841	Splashed white (SW 5-8)* (all breeds)	28-42
8525	Sunshine (all breeds).....	7-14
8843	Tiger eye* (Paso Fino).....	28-42
8130	Tobiano (all breeds).....	7-14

Genetic Test Combinations / Coat Colour Horse

(sample material: 0.5 - 1 ml EDTA blood or hair roots from mane or tail)

8851	Combination coat colours horse - basic colours	7-14
	Agouti, Chestnut	
8852	Combination coat colours horse - dilutions	7-14
	Champagne, Cream, Dun, Pearl, Silver	
8853	Combination coat colours horse - white pattern	7-14
	Leopard complex, OLWS, Appaloosa pattern 1, Tobiano, Sabino-1, Splashed white 1-4	

Performance Horse

(sample material: 0.5 - 1 ml EDTA blood or hair roots from mane or tail)

8528	Predictive height test	3-14
	Warmblood breeds	
8187	Speed gene* (Thoroughbred).....	7-14
8855	SynchroGait (DMRT3)*	28-42
	American Bashkir Curly Horse, American Miniature Horse, American Saddlebred, Appaloosa, Coldblooded Trotter, Icelandic Horse, Kentucky Mountain Saddle Horse, Mangalarga Marchador, Missouri Fox Trotter, Morgan Horse, Paint Horse, Paso Fino, Peruvian Horse, Standardbred, Quarter Horse, Tennessee Walking Horse	
8549	Tractability (Thoroughbred)	7-14

DNA Profile / Parentage Horse

(sample material: 0.5 - 1 ml EDTA blood)

8507	DNA profile (genetic fingerprint) (ISAG 2006)	7-14
8109	Parentage check (excl. DNA profile, each offspring).....	14-21
	comparison of DNA profiles	

Special analyses

8201	Species differentiation	14-21
	+ costs for handling of special material, see service 8028	
8132	DNA purification and storage (standard material)	
8028	Handling of special sample material	
	sperm, faeces, tissue, forensic samples	

Certificate

8791	Digital certificate (PDF) (charged per report)	
	with digital copy protection	
8105	Certificate printout (charged per test)	
	copy protected; printed on forgery-proof paper, sent by postal mail; plus shipping costs (SC) (SCs vary depending on the destination country up to 28.00 Euro)	

Farm Animal Specific Tests

Profiles / Screenings

7700	UPDATE! Ruminant Large Screening	S+NaFB/1ml	2-3
	AP, γ -GT, bilirubin, cholesterol, triglycerides, glucose, AST, LDH, GLDH, CK, protein, albumin, globulins, alb/glob ration, urea, crea, Ca, Mg, K, Na, Fe, PO ₄ , Cl, Cu, Zn, Se		
	+ Complete Blood Count	+ EB/1ml+BS.....	**
7702	UPDATE! Large Screening + SAA (cattle)	S+NaFB/1ml	2-3
	AP, γ -GT, bilirubin, cholesterol, triglycerides, glucose, AST, LDH, GLDH, CK, protein, albumin, globulins, alb/glob ratio, urea, crea, Ca, Mg, Na, K, Cl, Fe, PO ₄ , Cu, Zn, Se, SAA		
	+ Complete Blood Count	+ EB/1ml+BS.....	**
7707	NEW! Ruminant Large Screening + Haptoglobin	S+NaFB/1ml	2-3
	AP, γ -GT, bilirubin, cholesterol, triglycerides, glucose, AST, LDH, GLDH, CK, protein, albumin, globulins, alb/glob ratio, urea, crea, Ca, Mg, K, Na, Fe, PO ₄ , Cl, Cu, Zn, Se, haptoglobin		
	+ Complete Blood Count	+ EB/1ml+BS.....	**
7300	UPDATE! Ruminant Performance Profile	S/1ml.....	2-3
	protein, urea, cholesterol, GLDH, γ -GT, bilirubin, Ca, PO ₄ , Mg, Na, K, Cl, β -HBA, NEFA, Cu, Se		
	+ Complete Blood Count	+ EB/1ml+BS.....	**

1209	NEW! Transition Cow Profile	S/1ml.....	2
	protein, albumin, globulins, alb/glob ratio, urea, cholesterol, bilirubin, GLDH, γ -GT, β -HBA, NEFA, Ca, PO ₄ , Mg, Na, K, Cl		
	+ Complete Blood Count	+ EB/1ml+BS.....	**
1219	NEW! Transition Cow Profile + Haptoglobin	S/1ml.....	2
	protein, albumin, globulins, alb/glob ratio, urea, cholesterol, bilirubin, GLDH, γ -GT, β -HBA, NEFA, Ca, PO ₄ , Mg, K, Na, Cl, haptoglobin		
	+ Complete Blood Count	+ EB/1ml+BS.....	**
7550	Downer Cow Syndrome	S/1ml.....	**
	Ca, PO ₄ , Mg, AST, CK, urea, protein		
7610	Ketosis Profile	S/1ml.....	2
	GLDH, γ -GT, bilirubin, protein, cholesterol, urea, β -HBA, NEFA		
7660	Bovine Fertility Profile	S/1ml.....	2
	AST, β -HBA, Ca, Na, PO ₄ , Mg, NEFA		
7620	Supply Profile - Calf	S+NaFB/1ml	2
	glucose, protein, Ca, Na, PO ₄ , Mg, Fe, IgG		
7621	Supply Profile - Calf + Vit E/Se	S+NaFB/2ml	5
7630	Weak Calf Profile	S/1ml.....	**
	protein, Ca, PO ₄ , Zn, Fe		
7631	Weak Calf Profile + Endoparasites	S/1ml+FA.....	*
7640	Mineral Profile I	S/1ml.....	2-3
	Ca, Na, PO ₄ , Mg, Zn, Cu, Se		
4010	Mineral Profile II	S/3ml	2-4
	Ca, Na, PO ₄ , Mg, Zn, Cu, Se, K, Cl, Fe, Mn		
7650	Large Porcine Profile	S/1ml.....	2-3
	γ -GT, GLDH, bilirubin, ALT, AST, protein, CK, urea, crea, Ca, PO ₄ , Na, Mg, K, Se, Zn, Cu		
	+ Complete Blood Count	+ EB/1ml+BS.....	**
7651	Small Porcine Profile	S/0.5ml	**
	γ -GT, GLDH, bilirubin, urea, crea		
	+ Complete Blood Count	+ EB/1ml+BS.....	**
4001	UPDATE! Muscular Screening	S/1ml.....	**
	CK, AST, LDH, Na, K, Cl, Ca, PO ₄ , Mg, Fe		
1204	Heavy Metal Toxicity Screening	S+EB/2ml+H/5ml	8
	arsenic, lead, cadmium, chromium, copper, manganese, mercury, thallium, zinc		

Kidney / Urine

1081	NEW! Kidney Large Animals	S/0.5ml	**
	urea, crea, protein, albumin, globulins, alb/glob ratio, Ca, PO ₄		

For more tests, see dog / cat page 9

Please note: ! = cooled upon arrival (For further information, see p. 65, 66)

Liver

1001	UPDATE! Liver 1	S/0.5ml	**
	cattle: AST, GLDH, γ -GT, bile acids; pig: ALT, AP, GLDH, bile acids		

Haematology

35	Complete Blood Count (incl. diff.)	EB,HB/1ml+BS	**
2700	Thromboelastography (< 48 h).....	CB/2ml	2

For more tests, see dog / cat page 9

Pregnancy Diagnostics

135	Progesterone (day 18/19).....	S/0.5ml	**
2506	PAG (cattle, sheep, goat)	S/1ml.....	3-4
	cattle, goat from day 28; sheep from day 35		

Endocrinology

137	Thyroxine T4	S/0.5ml	**
136	Testosterone	S/0.5ml	3-4
2212	Anti-Müllerian Hormone (AMH) !	S/0.5ml	2

Immunology

748	Immunoglobuline G (neonates).....	S/0.5ml	2
751	Immunoglobuline G	S/0.5ml	2-3
1003	Serum Protein Electrophoresis	S/1ml.....	2

Others

1051	IGF I (Somatomedin) !	S/0.5ml	2
208	Haptoglobin	S/0.5ml	2
1041	Serum Amyloid A (SAA)	S/0.5ml	2
1825	Net Acid-base Excretion (NABE) !	H/15ml	3-4

Single Determinations - Clinical Chemistry

2236	Glutathione Peroxidase (GPx)	EB,HB/0.5ml	2
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For more tests, see dog / cat page 14

Vitamins

210	β-Carotene	S/0.5ml	2-3
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For more tests, see dog / cat page 15

Toxicology

97	Meadow Saffron (Colchicine)	H/1ml	3-4
484	NEW! Ragwort (Senecionine)	H/1ml	2-4

Serology (Antibodies/Antigen)

1572	Anaplasma phagocytophilum	EP,HP,S/0.5ml	2
8216	APP*	HP,S/0.5ml	6
567	Aspergillus	S/0.5ml	2
571	Babesia (microscopical)	EB/1ml+BS	2
2512	BHV-1 gE*	S/1ml	6
2511	BHV-1 gB*	Mi,S/1ml	6
176	Borrelia	EP,HP,S/0.5ml	2
5010	Bornavirus*	S/0.5ml	8
1660	Brucella*	S/1ml	4
2514	BVDV*	Mi,S/0.5ml	6
565	Chlamydia	EP,HP,S/0.2ml	2
372	Corynebacterium pseudotuberculosis*	S/1ml	6
	sheep, goat		
2353	Coxiella burnetii	S/0.5ml	Wed
2134	Fasciola hepatica	Mi,TaM,HP,S/0.5ml	4
2350	Lentiviruses (CAE/Maedi-Visna)	S/0.5ml	4
157	Leptospira (MAT)	EP,HP,S/0.5ml	2
564	Listeria (Type 1 + 4b)	EP,HP,S/0.5ml	2
2360	Mycoplasma hyopneumoniae*	S/1ml	6
1569	Neospora (cattle)	EP,HP,S/0.5ml	4
2634	Ostertagia ostertagi (cattle)	Mi,TaM/0.5ml	4
2633	Mycobacterium avium ssp. paratuberculosis	Mi,S/1ml	4
577	Porcine Parvovirus*	S/1ml	6
579	PRRSV*	S/1ml	6
132	Toxoplasma	EP,HP,S/0.5ml	2

Serological Profiles

1240	Bovine Respiratory Profile	S,HP/1ml	6
	BRSV, BPiV-3, Mycoplasma bovis		
1250	Bovine Abortion Profile	S/3ml	6
	Neospora caninum, Coxiella burnetii, leptospira, chlamydia, BVDV*		
1251	Small Ruminant Abortion Profile	S/3ml	2-4
	Coxiella burnetii, chlamydia, leptospira, listeria		
1241	Porcine Respiratory Profile	S/3ml	6
	APP*, Mycoplasma hyopneumoniae*, PRRSV*		
1260	Porcine Reproduction Profile	S/2ml	6
	leptospira, PRRSV*, chlamydia		

PCR Assays

8825	Anaplasma ovis/Mycoplasma ovis	EB	2-4
8182	Anaplasma phagocytophilum	EB,Z	2-4
8056	APP	A,NSP	2-4
8019	Babesia (Piroplasmida)	EB,Z	2-4
	also determines theileria; incl. species diff.		
8134	BHV-1*	A	8-15
8583	Bluetongue Virus (BTV 1-24)	EB	2-4
8162	Bordetella bronchiseptica	A,BAL	2-4
8343	Bornavirus	LQ,EB	2-4
8010	Borrelia	HT,LQ,SV,Z	2-4
8058	Brachyspira hyodysenteriae/pilosicoli	FA	2-4
8413	BRSV	A,NSP	2-4
8423	BVDV	EB,Mi,FA,AM	2-4
8004	Chlamydia	A,TSP,Mi,H,FA,AM	2-4
8919	NEW! Clostridioides difficile toxin A + B	FA	2-4
8916	NEW! Clostridium perfringens alpha toxin	FA	2-4
8914	NEW! Clostridium perfringens enterotoxin	FA	2-4
8587	Coronavirus (BCoV)	FA,A	2-4
8670	Coronavirus (TGE) (pig)	FA	2-4
8424	Coxiella burnetii	A,Mi,H,FA,AM	2-4
8416	Cryptosporidia	FA	2-4
8821	Dermatophilus congolensis	HT,K,GW	3-5
8489	UPDATE! Dermatophytes	HA,HT,K	3-5
	incl. species differentiation		
8020	Histophilus somni	A,NSP	2-4
8223	Influenza A Virus	A,NSP	2-4
8059	Lawsonia intracellularis	FA	2-4
8031	Leptospira	H+EB,Mi,Sp,AM	2-4
8827	Listeria monocytogenes	AM,EB	2-4
8026	Mannheimia haemolytica	A,NSP	2-4
8425	Mycobact. avium ssp. paratuberculosis (MAP)	FA	2-4
8436	Mycoplasma bovis	A,NSP,Mi,SV,Sp	2-4
8176	Mycoplasma haemolamae	EB	2-4
	llama, alpaca		
8057	Mycoplasma hyopneumoniae	A,NSP	2-4

8106	Mycoplasma suis	EB	2-4
8029	Neospora caninum	AM.....	2-4
8412	Parainfluenzavirus (BPiV-3).....	A,NSP	2-4
8669	Parvovirus (PPV) (pig).....	A,EB,AM	2-4
8426	Pasteurella multocida (toxin producing).....	A,NSP	2-4
8002	Porcine Circovirus 2 (PCV-2)	A,EB,AM	2-4
8036	PRRSV (incl. diff. EU/NA/HP-NA)	A,NSP,EB,Sp,AM	2-4
8891	NEW! Rotavirus A	FA	2-4
8103	Toxoplasma gondii	AM.....	2-4
8999	Tritrichomonas foetus	PSP,A	2-4

Tissue samples are also suitable for PCR assays, depending on the pathogen distribution.

Infectious Disease Profiles

8432	Bovine Abortion Profile	AM,A+TM.....	3-4
bacteriology, PCR: Neospora caninum, Coxiella burnetii, chlamydia, BVDV			
8427	Bovine Respiratory Profile 1	NSP,A+TM.....	3-4
bacteriology, PCR: BRSV, BPiV-3, Mycoplasma bovis			
8428	UPDATE! Bovine Respiratory Profile 2	NSP,A	2-4
PCR: Mannheimia haemolytica, Pasteurella multocida (toxin producing), Histophilus somni			
8920	NEW! Bovine Respiratory Profile 3	NSP,A	2-4
PCR: BRSV, BPiV-3, BCoV, Mannheimia haemolytica, Pasteurella multocida (toxin producing), Histophilus somni, Mycoplasma bovis			
8448	Mastitis PCR Profile*	Mi.....	3-4
PCR assays for 16 mastitis pathogens (incl. mycoplasma, yeast, Prototheca spp.) and β -lactamase gene (no antibiogram)			
8441	Porcine Reproduction Profile	AM,A	2-4
PCR: PPV, PRRSV, PCV-2, leptospira, chlamydia			
8440	Porcine Respiratory Profile	NSP,A+TM.....	3-4
bacteriology, PCR: M. hyopneumoniae, APP, PRRSV, Influenza A, Pasteurella multocida (toxin producing)			
8430	Small Ruminant Abortion Profile	AM,A+TM.....	3-4
bacteriology, PCR: chlamydia, Coxiella burnetii			

Bacteriology and Milk Examination

Swabs / Aspirates / Milk

160	Milk Examination (cattle).....	Mi,1/4	3-4
3160	Milk Examination (cattle).....	Mi,4/4	3-4
233	Milk Examination (sheep, goat).....	Mi,2/2	3-4
96	Milk Somatic Cell Count (cattle)	Mi/10ml.....	2

If necessary:

725 Antibiotogram Aerobesfixed price.....

For more bacteriological tests, see dog / cat page 18

Digestive Disorders and Diarrhoea - Faecal Examination

Microbiology

2450	Faecal Bacteriology (incl. salmonella).....	FA	3-4
1168	Bovine Faecal Profile	FA	3-4
bacteriology incl. salmonella, mycology, M. avium ssp. paratuberculosis (PCR), endoparasites			
1171	Calf Faecal Profile - Large	FA	3-4
bacteriology incl. salmonella and E. coli F5, mycology, endoparasites incl. cryptosporidia, coccidia, rotavirus, coronavirus			
1062	Calf Faecal Profile (EIA)	FA	2
rotavirus, coronavirus, E. coli F5, cryptosporidia			
1173	Porcine Faecal Profile	FA	3-4
bacteriology incl. salmonella, mycology, Lawsonia intracellularis (PCR)			
1169	Piglet Faecal Profile	FA	3-4
bacteriology incl. salmonella, mycology, Clostridium perfringens enterotoxin, endoparasites, rotavirus, coronavirus			
8510	E. coli eae Gene (intimin) (PCR)	FA	4-5
in addition to a bacteriological examination			

For more tests, see dog / cat page 18

Virology

see dog / cat page 17

Parasitology

78	Ruminant Endoparasites	FA	3
flotation, SAFC and Baermann Test			
149	Endoparasites (flotation and SAFC)	FA	•
585	Baermann Test (lungworm larvae)	FA	3
2632	Modified McMaster	FA	2
egg count per gram of faeces			
1183	Endoparasite Profile	FA	2
flotation, SAFC, modified McMaster			
187	Cryptosporidia - Antigen (EIA)	FA	Mon/Wed/Fri

For more tests, see dog / cat page 17

Genetics

8504	β-Casein (A1-A2) (cattle).....	EB	3-5
8049	Freemartinism* (cattle).....	EB	21-28
8037	Bovine leucocyte adhesion deficiency*	EB	21-28
(BLAD) (cattle)			

8584	Scrapie predisposition (sheep)	EB	7-14
8362	Malignant hyperthermia (MH)* (pig)	EB	21-28
8607	DNA Profile* (cattle)	EB	21-35

Small Mammals

Clinical Chemistry - Profiles

1013	Small Mammals Screening (small)	HP,S/0.4ml	**
	(Rab, GP, Rt, Ms, Ha, Fr, Hh)		
	urea, crea, ALT, GLDH, protein		
	+ Complete Blood Count	+HB,EB/0.5ml+BS	**
1004	UPDATE! Small Mammals Screening (large) ...	HP,S/0.7ml	**
	(Rab, GP, Rt, Ms, Ha, Fr, Hh)		
	AP, GLDH, γ -GT, ALT, AST, bilirubin, bile acids, glucose, fructosamines, triglycerides, CK, protein, urea, crea, PO ₄ , Ca, Na, K, Cl		
	+ Complete Blood Count	+HB,EB/0.5ml+BS	**
1104	UPDATE! Small Mammals Screening (large) + T4 (GP)...	HP,S/0.7ml	**
	AP, GLDH, γ -GT, ALT, AST, bilirubin, bile acids, glucose, fructosamines, triglycerides, CK, protein, urea, crea, PO ₄ , Ca, Na, K, Cl, T4		
	+ Complete Blood Count	+HB,EB/0.5ml+BS	**
1047	E. cuniculi Profile (Rab)	HP,S/0.5ml	2
	E. cuniculi IgG + IgM, serum protein electrophoresis		
	+ Complete Blood Count	+HB,EB/0.5ml+BS	**
1086	NEW! E. cuniculi Profile (large) (Rab)	HP,S/1ml	2
	Small Mammal Screening (large), E. cuniculi IgG + IgM, serum protein electrophoresis		
	+ Complete Blood Count	+HB,EB/0.5ml+BS	**
2404	UPDATE! Ferret Screening	S,HP/0.5ml	**
	glucose, fructosamines, triglycerides, ALT, GLDH, AST, CK, protein, albumin, globulins, alb/glob ratio, urea, crea		
	+ Complete Blood Count	+HB,EB/0.5ml+BS	**
1044	UPDATE! Wild Hedgehog Profile	HP,S/0.4ml+FA	3
	urea, crea, ALT, GLDH, protein, endoparasites, Baermann Test (lungworm larvae)		
	+ Complete Blood Count	+HB,EB/0.5ml+BS	**

SM=small mammals, Rab=rabbit, GP=guinea pig, Rt=rat, Ms=mouse, Ha=hamster, Fr=ferret, Hh=hedgehog

Small Mammal Specific Tests



We offer:

- Consultations with small mammal specialists from all departments
- Species-specific profiles and tests
- Turnaround time of one working day for many tests

Blood tests

- Haematology
- Clinical chemistry
- Endocrinology – thyroid gland, pancreas, adrenal glands and reproductive organs
- Infection diagnostics - PCR, antibody determination

Faecal tests

- Bacteriology, mycology, endoparasites

Urine tests

- Urinalysis / sediment, urinary calculi, bacteriology

Skin tests

- Bacteriology, mycology, ectoparasites

Pathology

- Pathohistology, cytology

Only by LABOKLIN

- Adrenal profile in ferrets
- Cortisol determination in saliva
- Special microbiological and PCR profiles
- Genetics

NEW! at LABOKLIN

- *Mycoplasma caviae* (PCR): causes respiratory diseases and arthritis in guinea pigs
- *Mycoplasma* spp. (PCR): is involved in conjunctivitis and rhinitis complex in rabbits; the test can also be ordered as a part of the respiratory profile
- In case of a positive dermatophyte PCR, the species differentiation is included
- Genetic sex determination in rabbits, guinea pigs, capybaras and other species on request

Haematology

35	Complete Blood Count EB,HB/0.5ml+BS.....** (incl. differentiation)	
3040	Complete blood count + reticulocytes EB,HB/1ml+BS2 (rabbit, guinea pig)	
1010	Leukogram EB,HB/0.5ml+BS.....**	
215	Blood Smear, cytological EB/0.5ml+BS2	

Single Determinations - Clinical Chemistry

128	Bile Acids S/0.5ml**	
16	Bilirubin, total S,EP,HP/0.5ml**	
3011	Fructosamines S/0.5ml**	
1041	Serum Amyloid A (SAA) (rab) S/0.5ml2	
1003	Serum Protein Electrophoresis HP,S/0.5ml2	
264	Troponin I (Rab) ! S/0.5ml2	

For more tests, see dog / cat page 14

Hormones

2212	Anti-Müllerian Hormone (AMH) (Rab) ! S/0.5ml2	
1123	17-OH Progesterone (Fr) S/0.5ml3-6	
18	Cortisol S/0.5ml**	
2094	Adrenal Profile (Fr) ! S/0.7ml3-6 17-OH progesterone, androstenedione, oestradiol	
134	Oestradiol (Fr) S/0.5ml2	
135	Progesterone S/0.5ml**	
136	Testosterone S/0.5ml3-4	
137	Thyroxine T4 S/0.4ml**	
126	Free T4 (fT4) S/0.4ml2	
141	NEW! ACTH Stimulation Test (GP) S/2x0.5ml** 2 x cortisol	
1142	NEW! Dexamethasone Suppression Test (GP) .S/3x0,5ml** 3 x cortisol	
1360	NEW! HCG Stimulation Test S/2x0.5ml3-4 2 x testosterone	
1328	Saliva Cortisol (GP) Saliva/0.1ml.....5	
1329	Saliva Cortisol Stimulation Test (GP) 2xSaliva/0.1ml3-4	
1320	NEW! Saliva Cortisol Suppression Test (GP) ..3xSaliva/0.1ml3-4	

Please note: ! = cooled upon arrival (For further information, see p. 65, 66)

Tumour Marker

1038	Thymidine Kinase ! (Rab, GP, Fr) S/0.5ml2	
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Serology (Antibodies/Antigen)

363	Adenovirus* (GP, Rab, Ms, Rt) EP,HP,S/0.5ml3-4	
413	Cytomegalovirus* (Ms, GP, Rt) EP,HP,S/0.5ml4-6	
610	Dirofilaria - Antigen (Fr) EP,HP,S/0.5ml2	
144	Distemper Virus (Fr) EP,HP,S/0.5ml2	
2020	E. cuniculi (IgG) (Rab, GP) EP,HP,S/0.5ml2	
2120	E. cuniculi (IgM + IgG) (Rab) EP,HP,S/0.5 ml2	
415	Hantavirus* (Rt, Ms) EP,HP,S/0.5ml4-6	
414	Lymphocytic Choriomeningitis Virus* EP,HP,S/0.5ml4-6 LCMV (GP, Ms, Ha)	
416	Myxoma Virus* (Myxomatosis) (Rab) EP,HP,S/0.5ml4-6	
411	Sendai Virus* (Rab, GP, Rt, Ms, Ha)..... EP,HP,S/0.5ml4-6	
132	Toxoplasma (IgG + IgM) (Rab, GP) EP,HP,S/0.5ml2	
412	Treponema paraluisclunuli* (Rab) EP,HP,S/0.5ml3-4	

Microbiology

see dog / cat page 18

Microbiology - Single Determinations

188	Clostridium perfringens enterotoxin (EIA) (Rab) ...FA2-3	
168	Yersinia FAup to 29	

For more tests, see dog / cat page 16

Faecal Profiles

2170	Rodent and Rabbit Faecal Profile FA3-4 bacteriology incl. salmonella, mycology incl. Cynicomyces guttulatus, endoparasites	
1177	Ferret Faecal Profile FA3-4 bacteriology incl. salmonella, mycology, endoparasites, Giardia sp. antigen EIA	

Parasitology - Profiles

87	Ferret and Chinchilla Parasite Profile FA2 endoparasites, Giardia sp. antigen EIA	
89	Hedgehog Parasite Profile FA3 endoparasites, Baermann test (lungworm larvae)	

For more tests, see dog / cat page 17

Sample Turnaround time

PCR Profiles

8278	UPDATE! Rabbit Respiratory Profile	A,NSP+TM	2-4
	bacteriology, PCR: Bordetella bronchiseptica, Pasteurella multocida (toxin producing), Mycoplasma spp.		
8559	Ferret Respiratory Profile	A,BAL,GW	2-4
	distemper virus, influenza A virus, SARS-CoV-2		
8801	UPDATE! Rat/Mouse Respiratory Profile	A	2-4
	Mycoplasma pulmonis, Bordetella bronchiseptica		

PCR Assays

8798	Adenovirus (GP).....	A	2-4
8162	Bordetella bronchiseptica (Rab)	A,NSP	2-4
8898	NEW! Capillaria aerophila	FA	2-4
8004	Chlamydia	A	2-4
8771	Coronavirus, enteric + systemic (Fr)	FA	2-4
8416	Cryptosporidia	FA	2-4
8489	UPDATE! Dermatophytes	HA,HT,K	3-5
	incl. species differentiation		
8003	Distemper Virus (Fr, racoon).....	H,LQ,A,EB,FA	2-4
8112	EBHS Virus (hare)	FA,H,L	2-4
8091	Encephalitozoon cuniculi	H,LQ	2-4
8342	Francisella tularensis (Rab, Ms)	A,Ln	2-4
8340	Giardia	FA	2-4
8329	Helicobacter spp. (Fr, Ha, Ms)	V	2-4
8223	Influenza A Virus (mammals)	A	2-4
8059	Lawsonia intracellularis	FA	2-4
8031	Leptospira	H+EB	2-4
8101	Microfilaria (Fr).....	EB	2-4
8885	NEW! Mycoplasma caviae (GP).....	A	2-4
8189	Mycoplasma pulmonis (Rt, Ms)	A	2-4
8897	NEW! Mycoplasma spp. (Rab).....	A,NSP	2-4
8496	Myxoma Virus (Myxomatosis) (Rab)	A	2-4
8390	Parvovirus (Aleutian mink disease) (Fr)	A,FA,EB	2-4
8426	Pasteurella multocida (toxin producing) (Rab)	A,NSP	2-4
8055	Poxvirus (Orthopoxvirus) (Rab, GP, Rt, Ms)	K	2-4

Small Mammal Specific Tests

Sample Turnaround time

50

8518	RHD Virus 1+2 (incl. diff.) (Rab).....	A,EB,FA,H,L	2-4
8891	NEW! Rotavirus A (Rab)	FA	2-4
8060	Salmonella	A,FA	2-4
8178	Sarcoptes scabiei (Rab, Fr)	HT	2-4
8103	Toxoplasma gondii (Rab, GP)	LQ	2-4
8114	Treponema paraluis-cuniculi (Rab).....	K,A	2-4

Tissue samples are also suitable for PCR assays, depending on the pathogen distribution.

Pathology

201	Histopathology	FGW	4-8
	tumours (up to 2 sites), skin punches, organ biopsies up to 3 sites		
2209	Histopathology (requiring increased effort)	FGW	4-8
	entire organs, organ biopsies up to 6 organs		
204	Cytology (1 site: up to 4 smears).....	OT,FG	2-4
2604	Cytology (requiring increased effort).....	OT,FG	2-4
	1 site: 5-6 smears, 2 sites up to 4 smears each		

Genetics

(sample material: 0.5 - 1 ml EDTA blood, buccal swabs)

8890	NEW! Sex determination (mammals).....	EB,A	2-4
	Rab, GP, others on request		
8810	Megacolon (MC) (Rab).....	EB,A	7-14
	Checkered Giant		
8811	Rex shorthair (Rab) (all breeds).....	EB,A	7-14

SM=small mammals, Rab=rabbit, GP=guinea pig, Rt=rat, Ms=mouse, Ha=hamster, Fr=ferret, Hh=hedgehog

SMALL MAMMALS

Birds

Clinical Chemistry - Profiles

1100	Avian Screening	HP,S/0.4ml	2
	LDH, AST, α -amylase, uric acid, bile acids, cholinesterase, CK, protein, triglycerides, cholesterol, GLDH, Na, K, Ca, PO ₄		

Haematology

35	Complete Blood Count Bird	HB/0.5ml+BS.....	2-3
	incl. differentiation		
1010	Leukogram	HB/0.5ml+BS.....	2-3
215	Blood Smear, Cytological (on request).....	EB,HB/0.5ml+BS.....	2
234	Blood Parasites, Microscopical	EB,HB/0.5ml+BS.....	2

Clinical Chemistry - Single Determinations

128	Bile Acids	S/0.5ml	**
17	Cholesterol	S,EP,HP/0.5ml	**
7	Cholinesterase	S,EP,HP/0.5ml	2
1003	Serum Protein Electrophoresis	HP,S/0.5ml	2
25	Triglycerides	S,EP,HP/0.5ml	**
200	Uric Acid	S,EP,HP/0.5ml	2

For more test see dog / cat page 14

Toxicology

105	Lead	EB,HB/1ml	2-3
34	Zinc	S/0.5ml	2

Serology (Antibodies/Antigen)

567	Aspergillus	S/0.5ml	2
417	Aspergillus-Galactomannan*	S/0.5ml	6
5010	Bornavirus*	S/0.5ml	8-11
565	Chlamydia	EP,HP,S/0.2ml	2
1403	Paramyxovirus (aPMV-1)*	EB,S/0.2ml	8-11
600	Pacheco's Virus*	S/0.2ml	8-11
2067	West Nile Virus IgG	S/0.5ml	6

Microbiology

see dog / cat page 18

Microbiology - Single Determinations

162	Campylobacter	FA	3-4
2176	Macrorhabdus ornithogaster	FA,OT	2
	microscopical; also from crop lavage, proventriculus (birds)		

For more tests, see dog / cat page 16

Faecal Profiles

2166	Avian Faecal Profile	FA	3-4
	bacteriology incl. salmonella, mycology, endoparasites		
1175	Pigeon Faecal Profile	FA	3-4
	salmonella, endoparasites		

Parasitology

see dog / cat page 17

PCR Profiles

6012	Avian 1	EB,F	3-6
	PBFDV, sex determination (bird species required)		
604	Avian 2 (PBFDV, polyomavirus).....	EB,F	2-4
603	Avian 3	EB,F	3-6
	sex determination, PBFDV, polyomavirus (bird species required)		
6010	Avian 4	EB,F	3-6
	sex determination, PBFDV, polyomavirus, herpesviruses (e.g. Pacheco) (bird species required)		
6017	Avian 5	EB,F+A	3-5
	PBFDV, polyomavirus, herpesviruses (e.g. Pacheco), chlamydia, bornavirus		
6018	Avian 6	EB,F+A	2-4
	PBFDV, polyomavirus, chlamydia		

PCR Assays

8495	Adenoviruses	A,FA	3-5
8829	Avian Haemosporidia (avian malaria)	EB	2-4
8517	Bornavirus (psittacine)	A	2-4
	PaBV-1, PaBV-2, PaBV-4, PaBV-7		
8004	Chlamydia	A,FA	2-4
	incl. differentiation Chlamydia psittaci		
601	Circovirus (PBFD virus)	EB,F	2-4
8092	Circovirus (pigeon)	EB,F,A,FA	2-4
8667	Herpesviruses (Pacheco and others)	EB,F,A,FA	3-5
8173	Mycoplasma gallisepticum/synoviae	A,FA	2-4
8244	Paramyxovirus 1 (aPMV-1)*	A	5-9

602	Polyomavirus	EB,F,A.....	2-4
8177	Poxvirus (Avipoxvirus).....	K.....	2-4
8534	Reoviruses	A,FA.....	3-5
8060	Salmonella	A,FA,Egg	2-4
8668	Trichomonas	A	2-4
8892	NEW! Usutu Virus	EB,S	2-4
8296	West Nile Virus	A,EB,S	2-4

Tissue samples are also suitable for PCR assays, depending on the pathogen distribution.

PCR Assay, Other

6011	Sex Determination	EB,F	3-6
4 samples or more per submission: ...€/sample ex. VAT; bird species required			

Pathology

see small mammals page 50

Reptiles, Amphibians, Fish

Clinical Chemistry / Screenings

1202	Reptile Screening (small).....	HP,S/0.2ml.....	2
AP, GLDH, protein, uric acid, Ca, PO ₄			
1200	Reptile Screening (large)	HP,S/0.4ml	2
AP, GLDH, ALT, AST, bile acids, CK, protein, triglycerides, cholesterol, urea, uric acid, PO ₄ , Ca, K, Na			
419	Fish Screening	HP,S/0.4ml.....	*
AP, ALT, γ-GT, AST, bile acids, CK, protein, cholesterol, urea, PO ₄ , Ca, K, Na			
1003	Serum Protein Electrophoresis	HP,S/0.5ml.....	2

Haematology

35	Complete Blood Count (incl. differentiation).....	HB/0.5ml (+BS).....	2-3
1010	Leukogram	HB/0.5ml (+BS).....	2-3
215	Blood Smear, Cytological	EB,HB/0.5ml+BS.....	2
234	Blood Parasites, Microscopical (reptile)	HB/0.5ml+BS.....	2

Single Determinations

128	Bile Acids	HP,S/0.2ml.....	**
26	Calcium	HP,S/0.2ml.....	**
10	GLDH	HP,S/0.2ml.....	**
33	Phosphate, Anorganic	HP,S/0.2ml.....	**

21	Urea	HP,S/0.2ml.....	**
200	Uric Acid	HP,S/0.2ml.....	2

For more tests, see dog / cat page 14

Vitamins

2267	Vitamin A	S/0.5ml	4
2269	Vitamin D (25 OH).....	S/0.5ml	2

For more tests, see dog / cat page 15

Serology, Infectious Diseases

1146	Herpesviruses (TeHV-1, TeHV-3).....	HP,S/0.4ml	8-15
tortoise			
116	Paramyxovirus/Ferlavirus*	HP,S/0.2ml	8
117	Picornavirus (tortoise)	HP,S/0.2ml	8-15

Pathology (Reptiles, Amphibians)

201	Histopathology (per clinical question)	FGW	4-8
tumour diagnostics, dermatopathology, organ biopsies up to 3 sites			
2209	Histopathology (requiring increased effort)	FGW	4-8
e.g. descriptive diagnoses up to 6 sites			
204	Cytology	OT,FG.....	2-4
impression smears, aspirate, fluid, etc.			

Microbiology

see dog / cat page 18

Faecal Examinations

1661	Reptile Faecal Profile	FA	3-4
bacteriology incl. salmonella, mycology			
175	Salmonella	FA	3-4
1215	Ziehl-Neelsen stain	FA	2
microscopic detection of acid-fast rods and cryptosporidia			

Parasitology

1149	Endoparasites (reptile).....	FA	2
flotation and SAFC, Ziehl-Neelsen stain, native smear			
149	Endoparasites (flotation and SAFC)	FA	1-2
585	Baermann Test (lungworm larvae)	FA	3
2082	Cryptosporidia - Antigen (IFAT) (reptile)	FA,MSP	2
8416	Cryptosporidia (PCR).....	FA,MSP	2-4
8516	Differentiation	if cryptosporidia PCR is positive in reptiles	

Selection of New Diagnostic Services for Exotics



Nannizziopsis - skin fungus in lizards

- Fungi of the genus *Nannizziopsis* can cause various skin changes, especially in lizards. Infected animals often develop ulcerative to crusty dermatitis. Granulomas are also regularly described in such cases. If left untreated, infections can be chronically progressive and can lead to the death of the animal.
- *Nannizziopsis* spp. were first described in bearded dragons (*Pogona vitticeps*), but have since been detected in a large number of reptile species.
- The PCR can be carried out on crust material, skin tissue or skin swabs.

Diagnostics for skin infections in amphibians

- **Bufonid herpesvirus 1** leads to skin infections in toads, **ranid herpesvirus 3** causes similar disease in frogs. Clinically inapparent infections can also occur.

- The viruses are excreted through the skin and are probably transmitted by direct contact.
- Specific detection via PCR is possible from skin swabs or skin tissue.
- We also offer various skin and quarantine profiles for amphibians that cover a wide range of differential diagnoses for skin disease in amphibians.

Differentiation of *Batrachochytrium dendrobatidis*

- There are currently 5 known *Batrachochytrium dendrobatidis* lineages. The „Global pandemic lineage“, or BdGPL for short, is the one most frequently found world-wide and is most often associated with mass mortality events.
- It is now possible, after a positive detection of *Batrachochytrium dendrobatidis*, to differentiate whether the detected fungus belongs to the BdGPL lineage.

PCR Assays

Sample	Turnaround time
8495 Adenoviruses (reptile) A,GW	3-5
8536 Batrachochytrium dendrobatidis A,HT	2-4
amphibian	
8882 NEW! Differentiation (BdGPL).....	
if Batrachochytrium dendrobatidis PCR is positive in amphibians	
8477 Batrachochytrium salamandrivorans A,HT	2-4
amphibian	
8402 Carp Edema Virus (CEV) (carp)..... GW	2-4
8004 Chlamydia (reptile, amphibian)..... A,LSP,GW	2-4
8416 Cryptosporidia (reptile) FA,MSP	2-4
8516 Differentiation	
if cryptosporidia PCR is positive in reptiles	
8826 Devriesea agamarum (lizard)..... A,HT,K	2-4
8687 Encephalitozoon pogonae FA,GW	2-4
bearded dragon	
8792 Entamoeba invadens (snake)..... FA,GW	2-4
8793 Entamoeba spp. (reptile)..... FA,GW	2-4
8922 Differentiation	
if Entamoeba spp. PCR is positive in reptiles	
8666 Herpesviruses (reptile)..... A,GW	3-5
8478 Differentiation	
if herpesvirus PCR is positive in tortoises	
8883 NEW! Herpesvirus (BfHV-1) A,HT	2-4
amphibians (esp. toads)	
8050 Herpesvirus (KHV) (koi carp)..... A,GW	2-4
8887 NEW! Herpesvirus (RaHV-3)..... A,HT	2-4
amphibians (esp. frogs)	
8581 Intranuclear Coccidia (TINC)..... A,NSP,GW	2-4
tortoise, turtle	
8531 Iridovirus (lizard, feed insect) A,HT,L.....	2-4
8088 Mycoplasma (tortoise, turtle, snake)..... A,NSP	2-4
8804 NEW! Nannizziopsis spp. HT,K,A,GW	2-4
Lizard	
8632 Ophidiomyces ophidiicola (snake) A,HT,GW	2-4
8122 Paramyxoviruses/Ferlaviruses (reptile) A,TSP,GW.....	2-4
8533 Picornavirus (Virus "X") (tortoise) A,GW.....	2-4

8530	Ranaviruses (reptile, amphibian, fish)	A,GW.....	2-4
8534	Reoviruses (reptile)	A,LSP,GW	3-5
8497	Reptarenaviruses/IBD (boa, python)	A,EB,GW	2-4
8060	Salmonella (reptile, amphibian).....	FA	2-4
8263	Serpentoviruses (Nidoviruses)	A,TSP,GW.....	2-4
	python, boa		
8544	Serpentovirus (Shingleback-Serpentovirus).....	A,TSP	2-4
	Tiliqua spp.		
8439	Sunshine Virus (python).....	A,GW.....	2-4

PCR Profiles

Profiles Lizard and Snake (Squamata)

8561	Respiratory/Neurological Profile (boa)	A,TSP+EB.....	3-5
	PCR: adenoviruses, reptarenaviruses, paramyxoviruses/ferlaviruses, reoviruses		
8262	Respiratory/Neurological Profile (python)	A,TSP+EB.....	3-5
	PCR: adenoviruses, reptarenaviruses, serpentoviruses, paramyxoviruses/ferlaviruses, reoviruses, mycoplasma		
8562	Skin Profile (lizard).....	HT+TM	3-5
	mycology, PCR: adenoviruses, Devriesea agamarum, ranaviruses		
8563	Quarantine Profile (lizard).....	A	3-5
	PCR: adenoviruses, ranaviruses, reoviruses		
8565	Quarantine Profile (boa, python)	A,TSP+EB.....	3-5
	PCR: adenoviruses, reptarenaviruses, paramyxoviruses/ferlaviruses, reoviruses, serpentoviruses		
8564	Quarantine Profile (colubrid, viper).....	A+HT	3-5
	PCR: adenoviruses, Ophidiomyces ophidiicola, paramyxoviruses/ferlaviruses, reoviruses		

Profiles Tortoise and Turtle

8560	Respiratory Profile Large (tortoise).....	A,NSP	3-5
	PCR: herpesviruses, mycoplasma, picornavirus		
8290	Respiratory Profile Small (tortoise, turtle)	A,NSP	3-5
	PCR: herpesviruses, mycoplasma		
1246	Hibernation Check Small (tortoise)	S,HP+A.....	8
	large reptile profile, Ab: herpesviruses (TeHV-1 + 3), PCR: herpesviruses, mycoplasma		
1247	Hibernation Check Large (tortoise)	S,HP+HB+BS+A+FA.....	8
	large reptile profile, complete blood count, Ab: herpesvirus (TeHV-1 + 3); PCR: herpesviruses, mycoplasma; endoparasites		
8566	Quarantine Profile (tortoise)	A,NSP+HP.....	8-15
	PCR: herpesviruses, mycoplasma, picornavirus, ranaviruses; Ab: herpesviruses (TeHV-1 + 3)		

8295	Quarantine Profile (aquatic turtle).....	A,NSP	3-5
	PCR: herpesviruses, mycoplasma, ranaviruses		

Profiles Amphibian and Fish

8909	NEW! Skin Profile Large (amphibian)	A,HT	2-4
	PCR: Batrachochytrium dendrobatidis, Batrachochytrium salamandrivorans, BfHV-1, RaHV-3		
8907	NEW! Skin Profile Small (amphibian).....	A,HT	2-4
	PCR: Batrachochytrium dendrobatidis, Batrachochytrium salamandrivorans		
8908	NEW! Quarantine Profile (anura).....	A,HT	2-4
	PCR: Batrachochytrium dendrobatidis, BfHV-1, RaHV-3, ranaviruses		
8567	Quarantine Profile (caudata).....	A,GW.....	2-4
	PCR: Batrachochytrium dendrobatidis, Batrachochytrium salamandrivorans, ranaviruses		
8882	NEW! Differentiation (BdGPL).....		
	if Batrachochytrium dendrobatidis PCR is positive in amphibians		
8404	Koi Carp Profile	GW	2-4
	PCR: Koi herpesvirus, carp edema virus		
2460	Bacteriology Fish + Fish Tuberculosis	A,GW.....	3-8
	bacteriology, Ziehl-Neelsen stain		

Cell Culture

242	Virus Isolation	GW,A.....	8
	sample material in medium for cell culture		

Next Generation Sequencing (NGS)

8830	NGS Analysis Viruses/Bacteria*		8-11
	consultation necessary, special kit has to be requested		

Water Examination (Fish)

Please indicate whether the sample is fresh water or salt water. For salt water, the conductivity will be measured instead of the total hardness for all water profiles.

1483	Combi Water Profile + Bacteriology	W/500ml+TM,GW	3-8
	nitrate, nitrite, phosphate, copper, total hardness (fresh water), conductivity (salt water), carbonate hardness, pH, ammonium, bacteriology (aerobic)		
1482	Large Water Profile	W/500ml.....	2
	nitrate, nitrite, phosphate, copper, total hardness (fresh water), conductivity (salt water), carbonate hardness, pH, ammonium		
1481	Small Water Profile	W/500ml.....	2
	nitrate, nitrite, total hardness (fresh water), conductivity (salt water), carbonate hardness, pH, ammonium		

Bees

171	American Foulbrood (Paenibacillus larvae, AFB) (culture)*	min. 8
	honey from cells close to the brood; in plastic bag	
8558	European Foulbrood (Melissococcus plutonius, EFB) (PCR).....	BL,B..... 2-4
178	Nosemosa spp. (microscopical).....	B2
	material: 30 - 40 dead bees	
193	if positive: Differentiation	2-4
	Nosema apis/Nosema ceranae	
8079	Chronic Bee Paralysis Virus (CBPV) (PCR)	B 2-4
8640	Deformed Wing Virus (DWV) (PCR).....	B 2-4
8503	Sacbrood Virus (PCR).....	BL 2-4

108 **Book: Bee Pathology**

authors: Heike Aupperle, Elke Genersch
(price in € + ...€ shipping costs)

Hygiene - Veterinary Practices/ Clinics

Additional shipping costs of ...€ per package will be charged for shipping the sampling material.

6323	Hygiene Monitoring - (steam sterilizer + surface disinfection efficacy testing).....	8
	6 bioindicators for one steam sterilizer, 3 agar contact plates, incl. interpretation of findings	
6409	Hygiene Monitoring - (hot air sterilizer + surface disinfection efficacy testing).....	8
	6 bioindicators for one hot air sterilizer, 3 agar contact plates, incl. interpretation of findings	
6306	Steam Sterilizer Control	8
	6 bioindicators	
6307	Hot Air Sterilizer Control	8
	6 bioindicators	
6250	Surface Contamination Testing	3-4
	Status survey, per contact plate	
6251	NEW! Surface Contamination Testing	3-4
	6 contact plates	
6252	NEW! Surface Contamination Testing	3-4
	10 contact plates	

6301	Surface Disinfection Efficacy Testing	3-4
	per contact plate	
6341	NEW! Surface Disinfection Efficacy Testing	3-4
	6 contact plates	
6342	NEW! Surface Disinfection Efficacy Testing	3-4
	10 contact plates	
6318	Endoscope Control	4-6
	2 swabs with medium, 3 sterile tubes with screw cap for liquid samples	
6410	Control of Cleaning and Disinfection of Surgical Instruments	4-8
	12 screws with blood, 12 screws with gravel	
6316	Disinfectant Testing	4
	tubes with screw caps and disinhibitor solution	
6401	Testing of Air Settlement Plates	3
	agar plate for air sampling in practice/clinic rooms - no air samples from stables	
196	MALDI-TOF Differentiation	2
2217	MRSA Differentiation	4-5
2219	MRSE Differentiation	4-5

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Abbreviations / Sample material / Notes

A	swab without medium	KM	bone marrow
AM	abortion material	KW	aqueous humour
AS	ascites	L	liver
B	bees	Ln	lymph node
BAL	bronchoalveolar lavage sample	LSP	lung lavage sample
BL	bee larvae	LQ	cerebrospinal fluid
BS	blood smear	LV	lavage
CB	citrate blood	M	spleen
CP	citrate plasma	MH	morning urine
EB	EDTA blood	Mi	milk
EP	EDTA plasma	MSP	gastric lavage sample
E	egg	N	kidney
F	feather	NaFB	sodium fluoride blood
FA	faeces	NSP	nasal lavage sample
FG	fluid	OT	specimen slide
FGW	tissue fixed in formalin	PSP	preputial lavage sample
FL	flea	S	serum
GW	tissue	Sp	sperm
H	urine	SV	synovia
HA	hairs	TaM	bulk tank milk
HB	heparin blood	TBS	tracheobronchial secretion
HP	heparin plasma	TM	swab with medium
HS	urolith	TSP	tracheal lavage sample
HSD	urinary sediment	V	vomit
HT	skin	W	water
K	scab/ crusts	Z	tick

, (Comma)

= sample types presented with comma: you can choose which sample type you want to submit

+

= sample types presented with "+": all indicated sample materials are to be submitted

*

= partner lab

!

= For samples that need to be cooled upon arrival to the lab, an exclamation mark „!“ is placed after the name of the test. If only one sample type out of several to be sent requires cooling, there is an additional „!“ after this specific sample type.

■

= same day result on Mon-Fri

■ ■

= same day result on Mon-Sat

Mon/Tue/Wed/Thu/Fri/Sat

= tests carried out on these days

Pre-analytics

Blood, plasma, serum and urine samples

Regularly check stocks of test tubes for shelf life. Expired tubes should no longer be used. When collecting samples, it is important to pay attention to the correct filling volume, especially when using citrate tubes. The blood should run down slowly along the side of the tube and, after drawing the sample, the test tube should be gently tilted. Blood samples for plasma should be centrifuged promptly and the supernatant transferred into a new uncoated test tube. Blood samples for serum should first be allowed to stand for 30 – 60 minutes and then centrifuged and pipetted. Blood smears are to be prepared directly and stored and shipped at room temperature. Urine should be collected fresh and as sterile as possible. Blood contamination should be avoided, as it may skew the results of, for example, the U-P/C and the cortisol-creatinine ratio.

Parameters with critical pre-analytics

For some parameters, testing only makes sense if certain requirements for the sample material are met, such as immediate centrifugation and pipetting in the practice or **cooling until the sample arrives at the laboratory**. You can find an overview of such parameters that require special pre-analytical conditions in the **table on p. 66**.

For some parameters, there are several requirements in the table. **Mandatory requirements** are marked in **bold**. If mandatory requirements are not met, it may become impossible to analyse the sample.

Cooling may also be necessary for other parameters not listed in the table (pay attention to a cooling note “!”); in such cases, interrupting the cold chain is less critical than for the parameters listed in the table. To **prepare the transport of cooled samples**, please cool the samples as well as the freeze containers / cool packs for > 1.5 hours before sending. For shipping cooled samples, freeze containers / cool packs may also be frozen in advance – only when shipping a whole blood sample for performing a blood count or urine sample avoid contact of the sample with frozen material. Please note that the laboratory needs to receive the sample cooled upon arrival, if a “!” is stated by the parameter in question.

Before **transporting frozen samples**, the freeze containers / cool packs AND the samples must be stored in the freezer at approx. -20 °C for at least **10 hours**.

When ordering several tests, **two samples of the same type of material** are necessary if one of the tests requires freezing or exclusion of air and it is also a service by a partner laboratory (marked with *).

For example, if fT4 dialysis* and TSH are requested, two serum samples must be submitted with at least one of them being frozen (for fT4 dialysis*).

Table: parameters with critical pre-analytics | Bold print: mandatory requirement

Parameter/test	Material	Centrifugation & pipetting	Cooling / freezing	Other requirements	Further tests with this parameter
ACTH	EP	mandatory	cooled		TRH Stim. Test (horse)/ PPID Profile/ cortisol-ACTH ratio
Anti-Müllerian hormone (AMH)	S	mandatory	cooled		Granulosa Cell Tumour
Aldosterone	S	mandatory	preferably frozen (at least cooled)		
Androstenedione	S	mandatory	cooled		Adrenal Profile (dog, ferret)
Lead	EB, HB	whole blood (do NOT centrifuge)			Heavy Metal Toxicity Screening
pro-BNP	EP	mandatory	cooled		
Fanconi screening	H		frozen		
CPSE (prostate)	S, EP, HP	mandatory	preferably frozen (at least cooled)		
Ciclosporin	EB	whole blood (do NOT centrifuge)			
Erythropoietin	S	mandatory	frozen		
Factor VIII / IX / XI	CP		cooled		
ft4 dialysis*	S	mandatory	frozen		
Glutathione peroxidase	EB, HB	whole blood (do NOT centrifuge)			
Hypertension/Kidney (RAAS)	S	mandatory	frozen		
IGF-1	S	mandatory	cooled		
Insulin	S	mandatory	preferably frozen (at least cooled)		PPID Profile / EMS Profile / Oral Glucose Test (horse)
Ionised calcium*	S	mandatory		under exclusion of air	
Normetanephrine/ metanephrine* (N/M)	EP	mandatory	frozen		
Normetanephrine/ metanephrine-creatinine ratio*	H		cooled	acidified (pH <2)	
Parathormone (PTH)	S	mandatory	preferably frozen (at least cooled)		
Parathormone-rP*	EP	mandatory	preferably frozen (at least cooled)		
Serotonin	S	mandatory	preferably frozen (at least cooled)		Behaviour Profile (dog)
Taurine	EP	mandatory	cooled		
Thymidine kinase	S	mandatory	cooled		Tumour Diagnostics Small, Tumour Diagnostics Large (dog)
Troponin I	S	mandatory	cooled		Cardiac Screening/ thyroid gland monitoring
Vitamin B1 / B2 / B6	EB, HB	whole blood (do NOT centrifuge)	preferably frozen (at least cooled)		Vitamin Profile Large
von Willebrand antigen	CP	mandatory	preferably frozen (at least cooled)		

Administration of medication

Many medicines, e.g. corticosteroids, various antibiotics, barbiturates, have a profound, sometimes species-specific influence on the concentrations of clinical-chemical, endocrinological, serological and haematological parameters.

Histology

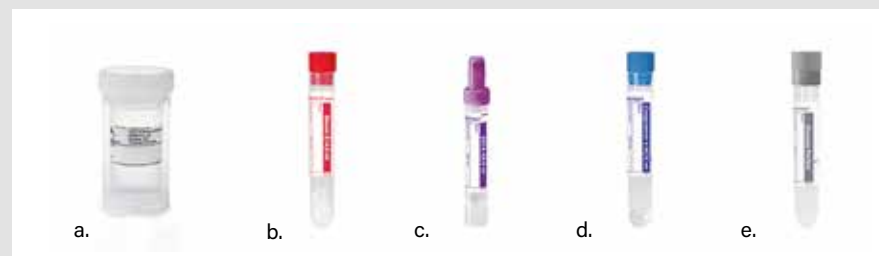
10% formalin fixation (may need a little addition of alcohol in winter), clinical history required (fill in pathology submission form).

Ideal sample size: 0.5 – 2.0 cm, skin punch biopsies: 0.6 – 0.8 cm

- **Skin:** Send a sufficient number of representative samples and indicate the sampling sites. Avoid artefacts during collection: electrocoagulation, disruption, squashing, autolysis impair the examination.
- **Tumour:** The evaluation of resection margins requires the complete submission of tissue (possibly including tumour bed biopsies).
- **Organs:** Use embedding cassettes if necessary.

Cytology

After air-drying, preferably send unstained smear preparations for cell evaluation (especially of tumour and inflammatory cells). If necessary, send stained preparations (staining: Diff-Quik®). Do not cover or stick any notes on the specimen slides. Special staining possible if required (e.g. for fungi, mycobacteria, copper).



a: Formalin container **b:** Serum tube **c:** EDTA tube **d:** Citrate tube **e:** NaF tube

Polymerase chain reaction (PCR)

Pathogens that cause viraemia, parasitaemia, or bacteraemia can be directly detected in **EDTA blood** samples during this phase of infection. At least 0.2 ml is necessary for the analysis. **Swabs** should be submitted without medium (exception: For CEM profiles, swabs in Amies transport medium must be used to meet the official EU requirements for export /transport). Pathogen detection in **faeces** requires a sample amount of about the size of a hazelnut. As some pathogens (e.g. coronaviruses, *Trichomonas foetus*) are only shed intermittently, we recommend collecting faeces over 3 days.

Additional sample materials for PCR assays, e.g. **tissue, urine and aspirates**, should be submitted in sterile, uncoated sample tubes. Fixatives like formalin are not appropriate. The samples do not generally need to be sent cooled. But the material can be stored in the refrigerator at 2-8 °C until it is submitted to the transport. It is important to avoid repeated freeze/thaw cycles.

Genetic Testing

EDTA blood (about 1 ml) can be used for molecular detection of hereditary diseases, parentage analysis or for the genetic determination of coat colour or blood group.

Alternatively, swabs of the oral mucosa, so-called buccal swabs, can be used in dogs and cats (exception: not for Lafora disease or squamous cell carcinoma of the toe). Two swabs without transport medium or a special swab should be submitted per animal. To avoid contamination of the swab with foreign DNA, the animal should not have eaten or nursed for approx. 1 – 2 hours before taking the swab. It is also recommended to keep the animal separated from members of the same species or other animals during this period.

For DNA profiling or parentage analysis, we always recommend submitting a blood sample.

In horses, about 20 hair roots from the mane or tail can also be used for DNA preparation. For „Graying“, only hair roots from the mane or tail are suitable as sample material.

Microbiological / parasitological testing

It is important to label all samples and to include the animal species and sample location information, since it influences the selection of the culture medium for the test as well as the evaluation of the antibiograms.

- **Swabs for cultivating bacteria** (aerobic and anaerobic) should be submitted in **transport medium**. In case of localisations such as abscesses, samples should be tested for anaerobes as well as aerobes. Some bacteria (e.g. chlamydia, mycoplasma) are detected by **PCR**.
- For **PCR**, a **swab without transport medium** should be submitted.
- **Mycological testing** can be done from samples with and without transport medium.
- **Fluids** can be submitted in sterile tubes or a swab of the fluid can be taken. Whether a swab with or without medium is used, depends on what testing should be done. A uricult can be used for urine.
- **Blood** should be submitted in blood culture flasks. Sampling should be done while the animal has a fever, 2-3 flasks (sets) at different time points if possible. One aerobe and one anaerobe flask with bouillon should be used each time.
- **Hair & crusts / scabs** should be collected from the edge of the lesion, hairs should be taken with roots. The samples should be submitted in clean paper bags or tubes. Testing for ectoparasites, bacterial, or fungal pathogens, or PCRs are possible.

- **Faeces** should be submitted in faecal tubes. Faecal swabs can only be used for bacteriology, mycology or PCR. For the various other faecal tests, e.g. parasitology, a faecal swab is not sufficient - faeces are required.

The following tests are time critical

< 48 h after sampling: blood count, flow cytometry (immune status, leukaemia/ lymphoma profile, FIV monitoring, immunophenotyping), crossmatch test, thromboelastography, clinical-chemical and cultural urine tests.
< 72 h after sampling: thrombocyte antibodies

Sample storage time at LABOKLIN

EDTA, citrate blood and urine are stored for 7 days.
Serum and plasma samples are stored frozen for 14 days,
swabs for 14 days, **faecal samples** for 7 days, samples after **PCR pathogen** detection 2-3 weeks, **pathogen DNA / RNA** 1 year, **DNA samples** (genetic tests) for 5 years, **cytology slides** 3 weeks, **histopathology slides** 3 years.
For more information, please see our Compendium.



f: Large swab with transport medium with charcoal **g:** Thin swab with transport medium **h:** Swab without transport medium
i: Blood culture flasks

Public Holidays in the Netherlands and Germany

Please consider that on these public holidays there may be a delay in the delivery of your samples and / or reporting of your results. You will be informed in our monthly newsletters about the specific details.

2024	
01 January	New Year's Day
29 March	Good Friday (only DE)
01 April	Easter Monday
27 April	Kingsday (only NL)
01 May	Labour Day (only DE)
09 May	Ascension Day
20 May	Whit Monday
03 October	German Unity Day (only DE)
25 December	Christmas Day
26 December	2 nd Day of Christmas

2025	
01 January	New Year's Day
18 April	Good Friday (only DE)
21 April	Easter Monday
27 April	Kingsday (only NL)
01 May	Labour Day (only DE)
29 May	Ascension Day
09 June	Whit Monday
03 October	German Unity Day (only DE)
25 December	Christmas Day
26 December	2 nd Day of Christmas



LABOKLIN Offers Complete Service

Free sampling and shipping materials*



... and many more



*These materials can be ordered free of charge once per month. For each additional order, a shipping fee of ...€ (postal shipment) or ...€ (package shipment) will be charged to the clinic.

Materials available for a fee



Submission forms



- Allergy
- Equine, Camelids
- Equine Reproduction and Trade
- Farm Animal
- General
- Genetic
- Hygiene
- Microbiology/ Pathogen Detection
- Pathology
- Reptiles, Amphibians, Fish
- Small Mammals and Birds

Barcodes



We have a barcode system for easy and exact identification of samples.

Barcodes help with safety and efficiency in your clinic or practice as well as with orientation, efficiency and quicker handling at the laboratory.

Information materials

- Information brochures



- Folders Help & Advice



- Posters



General Information Regarding Cooperation with LABOKLIN N.V.

1. Sample transportation / courier service

In The Netherlands LABOKLIN works with the courier PS Nachtdistributie. We charge ...€ per patient for this service. For more information, please contact us. Should your samples be sent by postal service, please remember to stamp the envelope and send it to:

LABOKLIN N.V.
Industriestraat 29
6433 JW Hoensbroek
Nederland

2. Packaging / labelling of samples

All samples must be sent according to international legislation and therefore packed in a protective container with absorbent material inside and with a screw lid, preventing any leakage and contamination. Please send samples as packages, not as letters. The same legislation applies to samples sent by courier service!

3. Getting your results

In order to receive your results as quickly as possible, it is necessary that you provide a valid e-mail address. Please inform us of any changes as soon as possible.

You can choose to receive your results per:

- LABOKLIN app „MyLab“ where you can view or forward the results and even reply to us for additional testing, etc.
- directly in your practice software (depending on the country)
- e-mail
- postal service

4. Re-ordering of tests or additional testing

All serum / plasma samples and swabs are stored for 14 days. EDTA / citrate blood, urine and faeces for 7 days. Samples for PCR pathogen detection 2-3 weeks. Pathogen DNA / RNA 1 year, DNA samples (genetic tests) for 5 years, cytology slides 3 weeks, histopathology slides 3 years. Therefore, if you wish, you can place additional orders for any sample already registered. In these cases, the report number would be helpful (see also p. 67).

5. Invoicing

All prices listed on the submission forms and in the catalogue are quoted without the applicable Value Added Tax (VAT). The invoice recipient is the client and thus the veterinarian. Invoices to Dutch clients will be sent with 21% VAT. Foreign clients will receive invoices with 21% VAT, unless the international VAT-number is given (EU only). We issue our invoices in the first half of the following month. They include the detailed information on costs per sample and tests performed in the previous month, as well as animal and owner name and courier costs if applicable. If an invoice is to be sent to the owner, we invoice with a factor of up to 1.4 plus applicable VAT. This is only possible for genetic tests (the factor can vary depending on the test) and for submissions that include the owner's signature and complete data.

We offer generous discount rates depending on the monthly invoice revenue of that particular month.

- 3 % if more than ...€ monthly revenue
- 5 % if more than ...€ monthly revenue
- 7 % if more than ...€ monthly revenue
- 10 % if more than ...€ monthly revenue
- 13 % if more than ...€ monthly revenue
- 15 % if more than ...€ monthly revenue

No discounts apply for tests performed at partner laboratories, genetic test combinations, DNA profiles, allergen-specific immunotherapy, autovaccines or books.

6. Data protection notice

Details on how we use your personal data and your rights can be found at <https://laboklin.nl/privacyverklaring/>

7. Cooperation with external labs

Conditions on demand.

8. Turnaround time

The listed turnaround times cannot be guaranteed. Turnaround times usually relate to working days Mon-Fri only. In case a specific day of the week is mentioned, this test runs on that day in our reference lab in Germany.

9. Prices valid from 01.07.2024 until 30.06.2025

The tests offered and the prices may be subject to change. Prices are listed in EUR ex. VAT.

10. General terms and conditions

Please find our general terms and conditions online via <https://laboklin.nl/algemene-bedrijfsvoorwaarden/>



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