



**NL**

Catalogue

**22**  
**23**



## Foreword

Dear colleagues,

**NEW PRICES 2022** – we also have to adjust our prices:

- The rise in the minimum wage and increased petrol prices have made courier pickups more expensive. This is the reason the share of the courier costs that we have to charge you had to be increased. However, we still bear most of the costs ourselves.
- Material, energy and labour costs are the reasons for price increases, which you may find in the catalogue. As always, we have carefully considered where and to what extent they are necessary. As usual, we chose the date so that you could predict and plan for it; for many years, 1st July has been the starting date for our new prices and submission forms.

**NEW SERVICES 2022** – we have, as always, critically revised our range of services, added new parameters and changed some profiles in the light of new findings.

- The **senior profile** for horses has been extended to include SDMA and lipase due to new insights.
- You will find the **travel profiles** divided into geographical regions. For dogs and cats, the spectrum of pathogens has been adapted to the latest scientific findings. In addition, we offer profiles for vector-borne diseases, which cover those of our Central/Northern European regions.

- The haematological tests have been extended to include several **coagulation tests**. Here, we wish to highlight diagnostic options for coagulation disorders, which are not uncommon in certain breeds, such as the Maine Coon.
- In the field of **immunology**, some services have been added, which are also used in oncology.
- Where appropriate, we have added **quantitative PCR tests** to the qualitative ones, e.g. for the detection of feline coronavirus in aspirate and blood.

**NEW HELP FOR YOUR PRACTICE** – it has always been our concern not only to provide the diagnostics itself, but also to offer further support for the practice. New this year:

- **vbd.laboklin.com** is the website where you can find answers quickly and without much text if you want to know where which vector-borne disease is particularly common or at what time of the year it can be expected. Have a look – it will help you with your differential diagnoses as well as with your recommendations for treatment.
- **4Paws** is a free app that prevents your clients - animal owners - from forgetting treatments and appointments. Yes, it is true, once a day for five days – nobody will forget that. But deworming once a month or ectoparasite prevention, weekly desensitisation with

increasing dosage, annual vaccinations, repeat orders or follow-up appointments with you – your client can use the app for all of these. And being reminded is a building block for therapeutic success and forms the basis for the check-up visit to you

**We, the LABOKLIN team, are looking forward to continuing to work with you!**

With best regards from the lab,



Dr. Elisabeth Müller

Being named one of the **Best 50** companies by the Free State of Bavaria is both a pleasure and an obligation for us.

**BAYERN'S  
BEST 50**

BAYERISCHE UNTERNEHMERIN  
DES JAHRES 2021





## Selection of new and optimised diagnostic services

### Colchicine

- In horses, poisoning with autumn crocus (*Colchicum autumnale*) through grass, hay or silage can lead to massive symptoms of poisoning such as colic, coughing, diarrhoea or even death. Yet, at the same time, colchicine is also used medicinally and is on the FEI doping list as a 'banned substance'.
- Other animal species, such as ruminants and pigs, are susceptible as well.
- Colchicine poisoning can be detected in the urine of the animals for a few days; it is advisable to send in urine from several animals that have received the same feed. At least 3 ml of urine should be submitted. After collection, samples must be continuously refrigerated or, better still, frozen when stored and shipped.

### Factor XI deficiency in cats

- Insufficient formation of factor XI can now also be detected **serologically** in cats. For this, citrate plasma is required, and the citrate tube must be filled correctly.
- For Maine Coon cats, a **genetic test** for hereditary factor XI deficiency is also available.

### Optimised urine electrophoresis

- Through an updated methodology, it is possible to evaluate the proteins excreted in the urine in an even more differentiated way.
- All relevant glomerular and tubular proteins are differentiated and diagnosed, so that urine electrophoresis can indicate underlying disease even more specifically.
- Bence Jones proteins, which are diagnostic for the presence of multiple myeloma, can also be detected by this test.

### Vector-borne diseases (VBDs)

- VBDs are becoming increasingly important. The pathogen spectrum of the profiles has been critically revised. New dog/cat profiles are available for Northern/Central Europe.
- For more information on travel profiles and VBDs, see p. 7.

### Enhanced and optimised diagnosis of piroplasms

- Our **Babesia PCR** has been optimised: All piroplasms are now detected, i.e. pathogens of the genera *Babesia*, *Theileria* and *Cytauxzoon*.
- If there is a positive result, species differentiation is carried out automatically and at no extra cost. You will also benefit from this if you order profiles which include this PCR.

### Canine respiratory coronavirus (CRCoV)

- Canine respiratory coronavirus (CRCoV) has become one of the most common pathogens in canine respiratory diseases and can now be detected at LABOKLIN using real-time PCR.
- This is why CRCoV PCR has been included in the **canine respiratory profiles**, but it can also be requested as a single test.

### Quantitative coronavirus PCR

PCR for the detection of feline coronavirus (FCoV) is an important tool assisting in diagnosing FIP. Quantification of the virus load plays a major role here. In addition to faecal samples, quantitative PCR (qPCR) can now also be performed from effusion fluids and blood, although **these sample materials** differ in their **diagnostic application**:

- Faeces: detection of enteric FCoV to assess the infection pressure in the population
- Aspirate: a high number of detected virus in the abdominal and/or thoracic effusion is considered a strong indicator of FIP (always in conjunction with other diagnostic parameters such as protein electrophoresis, albumin/globulin ratio)
- EDTA blood: alternative sample material if there is no effusion (please note: lower sensitivity and viraemic phase possible with enteric FCoV)

### Endoparasite profiles

- The endoparasite profile, which includes endoparasites and giardia (EIA), is now not only available for dogs but also for cats.
- The profile, which also includes *Trichostrongylus axei* (PCR), can now be ordered as "Large Feline Endoparasite Profile".

### Heterozygosity – LABOGEN Diversity Check

- The free extension of the Premium SNP DNA Profile (ISAG 2020, test no. 8540) provides the possibility to compare the latest genetic breed data with the profile of one's own animal.
- At first, the heterozygosity analysis is carried out based on the Premium SNP DNA profile (ISAG 2020), and the result is then specifically classified in the genetic range of the breeding population.
- On our website <https://diversity.labogen.com> you can permanently save your own results. The data of the breeding populations are constantly updated there, allowing the customer to track genetic changes.

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www.laboklin.nl

### Prices valid from 01.07.2022 until 30.06.2023

The tests offered and the prices may be subject to change.  
VAT added if applicable.

### Courier Service

We offer courier services in most regions within Europe. In The Netherlands LABOKLIN works with NOX Night Time Express.  
For more information about this service, please contact us via email or phone.

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

**Profiles**

	turnaround time	urea	creatinine	α-amyldase	lipase	glucose	fructosamine	cholesterol	bilirubin	AP	GLDH	LDH	ALT	AST	CK	total protein	electrophor.	albumin	globulins	alb./glob.	triglycerides	γ-GT	lactate	PO <sub>4</sub>	Mg	Ca	Na	K	Na/K-ratio	Fe	Zn, Se	FCoV Ab	FcLV antigen	FIV Ab	U-P/C	β-HBA	NEFA	β-carotene	T4	bile acids	complete blood count																		
<b>Small Animals</b>																																																											
1006 Large Screening	••	•	•	•	•	•	•	•	•	•	•		•	•	•	•		•	•	•	•	•		•	•	•	•	•	•	•															•														
1000 Small Screening	••	•	•		•						•		•																																	•													
6001 „FIP“ Screening (cat)	2							•						•		•	•														•														•														
6013 Large Feline Profile	2	•	•	•	•	•	•	•	•	•	•		•	•	•	•		•	•	•	•	•		•	•	•	•	•	•		•	•	•											•															
6003 Small Feline Profile	2															•		•		•											•	•	•												•														
1208 Geriatric Profile + SDMA	2	•	•		•	•	•	•	•	•	•		•	•	•	•		•	•	•				•			•	•	•																•														
1008 Geriatric Profile + U-P/C	••	•	•		•	•	•	•	•	•	•		•	•	•	•		•	•	•				•			•	•	•					•											•														
1014 PreOP Screening (+PT)	2	•	•										•																																+ small blood count														
1015 Anaemia Screening Basis	2							•								•																													•														
6002 FIV Monitoring	2	•	•							•	•		•				CD4/CD8 (sample <48h old), FIV PCR (quantitative, 1-2 weeks)*																																										•
2266 BARF Profile	4	•											•			•		•						•		•																				•													
<b>Large Animals</b>																																																											
7700 Large Screening Equine/Bovine	2-3	•	•			•		•	•	•	•		•	•	•	•		•	•		•	•		•	•	•	•	•	•	•	•	•															•												
1060 Equine Small Screening	••	•	•								•	•		•	•	•					•	•																										•											
7500 Equine Performance Profile	2	•	•			•		•	•	•	•		•	•	•	•		•	•		•	•	•	•	•	•	•	•	•	•																•													
2528 Foal Profile	2	•	•													•	•							•	•	•	•	•	•																	•													
1080 Equine Senior Profile	2-3	•	•		•	•		•		•						•		•	•		•	•		•		•					•															•													
7300 Ruminant Performance Profile	2-3	•						•	•	•				•	•	•						•		•	•	•																					•												
7550 Downer Cow Syndrome	••	•												•	•	•								•	•	•																																	
7640 Mineral Profile I	2-3																							•	•	•	•			•																													
4010 Mineral Profile II	2-4																							•	•	•	•	•	•		•	•																											
<b>Small Mammals, Birds, Reptiles</b>																																																											
1004 Small Mammals Screening (large)	2	•	•			•	•	•	•	•	•		•	•	•	•					•	•		•		•	•	•																		•	•												
1200 Reptile Screening (large)	2	•						•		•	•		•	•	•	•						•		•		•	•	•																		•													
1202 Reptile Screening (small)	2									•	•					•								•		•																																	
1100 Avian Screening	2			•				•		•	•		•	•	•	•						•		•		•	•	•																		•													
2404 Ferret Screening	••	•	•			•	•			•			•	•	•	•				•	•																												•										

**Overview of the Most Important Blood Profiles**

Sample Turnaround time

Sample Turnaround time

## Profiles - dog / cat

<b>1006 Large Screening</b> .....	NaFB+S/1ml .....	••
α-amylase, lipase, glucose, fructosamine, cholesterol, bilirubin, AP, GLDH, ALT, AST, CK, protein, albumin, globulins, alb/glob-ratio, triglycerides, γ-GT, urea, crea, PO <sub>4</sub> , Mg, Ca, K, Na, Fe, Na/K-ratio		
<b>+ Complete Blood Count</b> .....	+EB/1ml .....	••
<b>1000 Small Screening</b> .....	S/1ml .....	••
ALT, GLDH, lipase, urea, crea		
<b>+ Complete Blood Count</b> .....	+EB/1ml .....	••
<b>6001 "FIP" Screening (cat)</b> .....	S/1ml .....	2
AST, bilirubin, protein, serum protein electrophoresis, FCoV - Ab		
<b>+ Complete Blood Count</b> .....	+EB/1ml .....	••
<b>6002 FIV Monitoring (cat)</b> .....	EB+S/2ml .....	2
ALT, GLDH, AP, urea, crea, CD4/CD8 (sample <48h old), FIV PCR (quantitative)* (turnaround time FIV PCR: 7-14 days)		
<b>+ Complete Blood Count</b> .....	EB/3ml+S/2ml .....	••
<b>6013 Large Feline Profile</b> .....	NaFB+S/1ml .....	2
FCoV Ab, FeLV Ag, FIV Ab + Large Screening		
<b>+ Complete Blood Count</b> .....	+EB/1ml .....	••
<b>6003 Small Feline Profile</b> .....	S/1ml .....	2
FCoV Ab, FeLV Ag, FIV Ab, protein, albumin, alb/glob-ratio		
<b>1008 UPDATE! Geriatric Profile + U-P/C</b> .....	NaFB+S/1ml+H .....	••
ALT, GLDH, AP, bili, AST, urea, crea, glucose, fructosamine, protein, albumin, globulins, alb/glob-ratio, CK, K, Ca, Na, PO <sub>4</sub> , Fe, lipase, T4, urine protein/crea-ratio		
<b>+ Complete Blood Count</b> .....	+EB/1ml .....	••
<b>1208 UPDATE! Geriatric Profile + SDMA</b> .....	NaFB+S/1ml .....	2
ALT, GLDH, AP, bili, AST, urea, crea, glucose, fructosamine, protein, albumin, globulins, alb/glob-ratio, CK, K, Ca, Na, PO <sub>4</sub> , Fe, lipase, T4, SDMA		
<b>+ Complete Blood Count</b> .....	+EB/1ml .....	••
<b>1190 Juvenile Profile (fasted)</b> .....	S+EB/1ml+FA .....	2
ALT, AP, GLDH, Ca, protein, urea, crea, bile acids, PO <sub>4</sub> , small blood count, endoparasites		
<b>1015 Anaemia Screening Basic</b> .....	EB+S/1ml .....	2
complete blood count (incl. reticulocytes), Fe, protein, bilirubin		
<b>8030 Anaemia Screening Dog</b> .....	EB+S/1ml .....	2-4
complete blood count, reticulocytes, Fe, protein, bilirubin, Coombs test; PCR: babesia (incl. diff), Ehrlichia canis, Anaplasma phagocytophilum, haemotropic mycoplasma (incl. species diff.)		

<b>8033 Anaemia Screening Cat</b> .....	EB+S/1ml .....	2-4
complete blood count, reticulocytes, Fe, protein, bilirubin, Coombs Test, PCR: haemotropic mycoplasma (incl. species diff.)		
<b>1014 Pre-OP Screening !</b> .....	CPI+S+EB/1ml .....	2
ALT, protein, urea, crea, small blood count (incl. thrombocytes), PT		
<b>2266 BARF Profile (fasted) !</b> .....	EB/1ml+S!/3ml .....	4
ALT, crea, protein, albumin, Ca, PO <sub>4</sub> , Cu, Zn, vit A, vit D, vit E, T4, small blood count		
<b>252 Iodine/Creatinine-Ratio</b> .....	H/1ml .....	Tue/Fri

## Haematology / Coagulation

<b>35 Complete Blood Count</b> .....	EB,HB/1ml (+BS) .....	••
incl. diff.		
<b>129 Reticulocytes</b> .....	EB/HB/1 ml .....	2
<b>1011 Small Blood Count</b> .....	EB,HB/1 ml .....	••
<b>215 Blood Smear, cytological</b> .....	EB/1ml+BS .....	2
<b>234 Blood Parasites, microscopical</b> .....	EB/1ml+BS .....	2
<b>244 Bone Marrow Cytology</b> .....	KM+BS+EB/1ml .....	3
cytology (bone marrow in EDTA + smear) + complete blood count		
<b>8337 Thrombocytopenia Profile (dog)</b> .....	EB/1ml .....	2-4
thrombocyte Ab (< 72h); PCR: Anapl. phagocytophilum, Ehrl. canis, Anapl. platys		
<b>595 Coagulation Status !</b> .....	CP/1ml .....	2
PT, PTT, thrombin time		
<b>592 Fibrinogen !</b> .....	CP/1ml .....	2
<b>597 Factor VIII (dog) !</b> .....	CP/1ml .....	2
<b>594 Factor IX (dog) !</b> .....	CP/1ml .....	2
<b>446 NEW! Factor XI (cat) !</b> .....	CP/1ml .....	2-3
<b>95 D-Dimer !</b> .....	CP/0.5ml .....	2
<b>1191 DIC Profile !</b> .....	EB/1ml+CPI/2ml .....	2
PT, PTT, thrombin time, D-dimer, complete blood count		
<b>593 von Willebrand Antigen (dog) !</b> .....	CP/1ml .....	2
cooled or frozen		
<b>2700 Thromboelastography (&lt; 48 h)</b> .....	CB/2ml .....	2

## Travel Profiles / Vector-borne Diseases

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

## Vector-borne Diseases (VBDs) – profiles at Laboklin

### Indications for diagnostics

- Especially in cases of fever, inappetence and haematological changes, vector-borne diseases (VBDs) should be considered in the diagnosis – even if there is no history of travelling.
- Cats as well as dogs from abroad should always be screened for VBDs.

### What is new?

- Since occurrence and frequency of the pathogens have changed, the profiles have been adapted.
- You will find new profiles for Northern/Central Europe.
- For example, the detection of Cytauxzoon is new. PCR detection of piroplasms (Babesia, Cytauxzoon) now includes species differentiation.
- Infections that increase the risk of VBDs (FIV or FeLV) or are relevant for differential diagnosis are also taken into account.

PROFILE	DOG Southern Europe	DOG Eastern Europe	DOG Travel Acute	DOG Northern/Central Europe	CAT Travel	CAT Northern/Central Europe
Ab Leishmania	x					x
Ab Bartonella henselae					x	x
Ab Rickettsia spp.	x	x			x	x
Ab Ehrlichia	x					
Ab BAbesia	x	x		x		
Ab Anaplasma phAgocytophilum		x		x		
Ab Borrelia			x	x		
Ab Neospora caninum				x		
Ab Toxoplasma						x
Ab FIV					x	
Ag FeLV					x	
Ag Dirofilaria immitis	x	x	x	x		
PCR Mikrofilaria	x	x				x
PCR BAbesia			x			x
PCR Cytauxzoon						x
PCR Hepatozoon	x					x
PCR Anaplasma phAgocytophilum			x			x
PCR Anaplasma platys	x					
PCR Haemotropic Mycoplasma			x			x
small blood count			x			



Do you need more information about VBDs?

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



Sample Turnaround time

Sample Turnaround time

## Blood Profiles

618	<b>Blood Group</b> (serologic) (dog, cat) .....	EB/1ml.....	••
2314	<b>UPDATE! Blood Donor</b> (dog).....	EB+S+NaFB+H/2ml .....	2-4
	blood group (serologic), complete blood count, urea, crea, Na, K, Ca, PO <sub>4</sub> , bili, ALT, AP, AST, GLDH, protein, albumin, glucose, PCR: Anaplasma phagocytophilum, babesia incl. diff.; urinalysis		
2316	<b>UPDATE! Blood Donor Follow-up</b> (dog).....	EB+S+NaFB+H/2ml .....	2-4
	Blood Donor (dog) without blood group		
2321	<b>Blood Donor</b> (cat) .....	EB+S+NaFB+H/2ml .....	2-4
	blood group (serologic), complete blood count, urea, crea, Na, K, Ca, PO <sub>4</sub> , bilirubin, ALT, AP, AST, GLDH, protein, albumin, glucose, FIV Ab, FeLV antigen, PCR: haemotropic mycoplasma (incl. species diff.), urinalysis		
2323	<b>Blood Donor Follow-up</b> (cat) .....	EB+S+NaFB+H/2ml .....	2-4
	Blood Donor (cat) without blood group		
1034	<b>Crossmatch Test</b> (dog, cat).....	EB/1.5ml.....	2
	< 48 h, on demand		

## Kidney / Urine

2000	<b>Initial Screening</b> .....	S/0.5ml .....	••
	urea, creatinine		
1130	<b>Kidney extended !</b> (fasted).....	S/1ml .....	2-7
	urea, crea, protein, albumin, Na, K, Ca, PO <sub>4</sub> , SDMA, indoxyl sulphate		
3008	<b>Polydipsia/-uria</b> .....	S+EB+NaFB+H .....	••
	glucose, fructosamine, ALT, GLDH, AP, Ca, protein, urea, crea, small blood count, urinalysis, Na, K		
460	<b>SDMA</b> .....	S,HP/0.5ml .....	2
251	<b>Indoxyl Sulphate !</b> (fasted) .....	S/0.5ml .....	6
222	<b>Cystatin C</b> .....	S/0.5ml .....	2
2005	<b>Protein/Creatinine-Ratio</b> (U-P/C).....	H/1ml .....	••
2007	<b>Microalbumin</b> (dog, cat) .....	H/0.5ml .....	2
8675	<b>BRAF Mutation Test</b> (dog) .....	GW,OT,H.....	4-5
163	<b>Urinary Calculi</b> .....	HS.....	2
1600	<b>Urine Electrophoresis</b> .....	H/1ml .....	Fri
2001	<b>Urinalysis incl. Sediment</b> .....	H/5ml .....	1-2
	dog: please indicate if treated with allopurinol		
1261	<b>Urinalysis/Sediment + Bact. Culture</b> .....	H/6ml .....	3-4
	dog: please indicate if treated with allopurinol		

1262	<b>Urinalysis/Sediment + Bact. Culture</b> (swab). H/5ml+TM.....	3-4
	dog: please indicate if treated with allopurinol	
161	<b>Urine Bacteriological Culture</b> .....	H/1ml..... 3-4
725	<b>Antibiogram</b> (if applicable).....	fixed price.....
2275	<b>COLA Test !</b> (frozen).....	H/3ml..... Di
1192	<b>Fanconi Screening !</b> (frozen).....	H/5ml..... Di

## Liver

1001	<b>Initial Screening</b> .....	S/0.5ml .....	••
	dog, cat: ALT, GLDH, AP		
1002	<b>Liver Screening 1</b> (fasted).....	S/1ml .....	2
	ALT, GLDH, AP, γ-GT, bilirubin (total+I), protein, albumin, bile acids		
1102	<b>Liver Screening 2</b> (fasted).....	S/1ml .....	2-4
	AP, AST, ALT, protein, albumin, bile acids, Mn, Cu		
1003	<b>Serum Protein Electrophoresis</b> .....	S/1ml .....	2
1128	<b>Bile Acid Stimulation Test</b> .....	S/2x0.5ml .....	2

## Pancreas - Exocrine (fasted)

3001	<b>Pancreatitis Profile</b> (dog/cat).....	NaFB+S/1ml .....	2
	PLI, cholesterol, triglycerides, amylase, lipase, ALT, AST, protein, Na, K, Cl, Ca, glucose		
	<b>+ Complete Blood Count</b> .....	+EB/1ml.....	••
12	<b>Lipase</b> (DGGR).....	S/0.5ml .....	••
1230	<b>PLI</b> (dog/cat).....	S/0.5ml .....	2
1196	<b>Vomitus Profile</b> .....	S/0.5ml+EB/1ml .....	2
	lipase, AST, bile acids, protein, albumin, urea, Na, K, Cl, complete blood count		
3002	<b>EPI Profile</b> (Exocrine Pancreas Insufficiency)	AST, ALT, albumin, Na, K, Cl, Ca, glucose, TLI assay, vit. B12	
	<b>Dog</b> .....	NaFB+S/1ml .....	2
	<b>Cat</b> .....	NaFB+S/1ml .....	3-4
3100	<b>TLI, B12, Folic Acid</b>		
	<b>Dog</b> .....	S/1ml .....	2
	<b>Cat</b> .....	S/1ml .....	3-4
3003	<b>TLI Test</b>		
	<b>Dog</b> .....	S/0.5ml .....	2
	<b>Cat</b> .....	S/0.5ml .....	3-4
3012	<b>Pancreas Elastase</b> (dog) .....	FA .....	3-4



Sample Turnaround time

Sample Turnaround time

## Seizure

3010 <b>Screening Dog</b> (fasted) .....	S+EB+NaFB/1ml .....	2
glucose, urea, calcium, phosphate, bile acids, toxoplasma Ab, neospora Ab, small blood count		
3010 <b>Screening Cat</b> (fasted) .....	S+EB+NaFB/1ml .....	2
glucose, urea, calcium, phosphate, bile acids, toxoplasma Ab, small blood count		
8203 <b>Neurology</b> (dog) .....	LQ/0.5ml .....	2-4
protein, IgA, CRP, TBE Ab, PCR: distemper virus, Neospora caninum, Toxoplasma gondii, Anaplasma phagocytophilum		
8500 <b>Neurology Small</b> (dog).....	LQ/0.5ml .....	2-4
protein, PCR: distemper virus, Neospora caninum, Toxoplasma gondii		
8414 <b>Neurology Cat</b> .....	LQ .....	2-4
PCR: coronavirus, Toxopl. gondii, Bartonella henselae, bornavirus		

## Muscular Disease

4001 <b>Muscular Screening</b> .....	S/1ml .....	••
CK, $\alpha$ -HBDH, AST, LDH, Na, K, Ca, PO <sub>4</sub> , Mg, Fe, dog/cat: +Na/K-ratio		
4006 <b>UPDATE! Extended Screening !</b> .....	S/3ml .....	4
Muscular Screening + vitamin E + Se		
264 <b>Troponin I !</b> .....	S/0.5ml .....	2
1520 <b>pro-BNP !</b>		
<b>Dog</b> .....	EP/0.5ml .....	Mon/Thu
<b>Cat</b> .....	EP/0.5ml .....	Tue/Fr
2213 <b>Cardiac Screening !</b> .....	S/1ml .....	2
CK, LDH, $\alpha$ -HBDH, AST, Ca, Mg, K, troponin I		
2030 <b>Taurine !</b> .....	EP/1ml .....	2-6
2035 <b>Carnitine (free)*</b> .....	S/1ml .....	11

## Immunology

### Immunoglobulin

749 <b>IgA</b> (dog) .....	S/0.5ml .....	Tue/Fri
751 <b>IgG</b> .....	S/0.5ml .....	2-3
750 <b>IgM</b> .....	S/0.5ml .....	3
1210 <b>Immune Status</b> (dog/cat).....	EB,HB/3ml .....	2
complete blood count, T-cells, B-cells, CD4+, CD8+, ratio CD4/CD8; samples <48h old		
179 <b>ANA Test</b> .....	S,EP,HP/0.5ml .....	2
180 <b>Coombs Test, direct</b> .....	EB/0.5ml .....	••
181 <b>Rheumatoid Factor</b> .....	S/0.2ml .....	2
563 <b>Acetylcholine Receptor Ab</b> .....	S/1ml .....	2
8054 <b>Thrombocyte Ab</b> .....	EB,HB/0.5ml .....	2
2380 <b>Leukaemia/Lymphoma Profile</b> (dog, cat) .....	Ln,EB,HB/3ml+BS .....	3-6
complete blood count, blood smear cytological, flow cytometry: lymphatic and/or myeloid cells; samples <48h old, PARR		
64 <b>Leukaemia Immunophenotyping</b> .....	Ln,EB,HB/2ml+BS .....	2-3
flow cytometry: lymphatic and/or myeloid cells; samples <48h old		
8418 <b>Lymphocyte Clonality</b> (PARR) .....	Ln,EB/1ml .....	4-6
sample: EB or tissue, cytol. smear, material with lymphocytes		

## Endocrinology

### Adrenal Cortex

18 <b>Cortisol</b> .....	S/0.5ml .....	••
141 <b>ACTH Stimulation Test</b> .....	S/2x0.5ml .....	••
2 x cortisol		
2141 <b>ACTH Stimulation Test extended</b> .....	S/2x0.5ml .....	3-6
2x cortisol, 2x 17 OH-progesterone		
142 <b>Dexamethasone Suppression Test</b> .....	S/2x0.5ml .....	••
low dose		
<b>Dexamethasone Suppression Test</b> .....	S/3x0.5ml .....	••
low dose		
143 <b>Dexamethasone Suppression Test</b> .....	S/2x0.5ml .....	••
high dose		
<b>Dexamethasone Suppression Test</b> .....	S/3x0.5ml .....	••
high dose		
183 <b>Cortisol/Creatinine-Ratio</b> .....	MH/1ml .....	2

	Sample	Turnaround time
1325 <b>Veteryl Therapy Control</b> .....	S/2x0.5ml .....	••
2 x cortisol, pre-, postpill		
1326 <b>Veteryl Therapy Control</b> .....	S/0.5ml .....	••
1 x cortisol, prepill		
1327 <b>Veteryl Therapy Control</b> .....	S/2x0.5ml .....	••
2 x cortisol, prepill		
2094 <b>Adrenal Profile (dog)</b> .....	S/0.7ml .....	3-6
17 OH-progesterone, androstenedione, oestradiol		
1123 <b>17 OH-Progesterone</b> .....	S/0.5ml .....	3-6
121 <b>ACTH !</b> .....	EP/0.5ml .....	2
2530 <b>Aldosterone ! (frozen)</b> .....	S,EP/0.5ml .....	8
3015 <b>Androstenedione !</b> .....	S/0.5ml .....	3-6
1328 <b>Saliva Cortisol (on demand)</b> .....	Saliva/0.1ml .....	on demand
1329 <b>Saliva Cortisol Stimulation Test</b> .....	2xSaliva/0.1ml .....	on demand
on demand		
1322 <b>Normetanephrine/Metanephrine* ! (frozen)</b> ..	EP/5ml .....	6-9
1321 <b>Normetanephrine/Metanephrine-Creatinine-Ratio* !</b> ...H/10ml .....		6-9
cooled, light-protected (tube wrapped in aluminium paper), acidified		
<b>Pancreas - Endocrine (fasted)</b>		
609 <b>Insulin !</b> .....	S/1ml .....	2
1412 <b>Insulin Ab * !</b> .....	S/0.5ml .....	8-11
3018 <b>Diabetes Monitoring</b> .....	NaFB+S/1ml .....	2
glucose, fructosamine, creatinine, protein, β-HBA, lipase, ALT, AST, Na, K		
+ <b>Complete Blood Count</b> ..... +EB/1ml..... ••		
<b>Thyroid Gland</b>		
137 <b>Thyroxine T4</b> .....	S/0.5ml .....	••
2148 <b>TSH (dog, cat)</b> .....	S/0.5ml .....	dog: ••, cat: 2
126 <b>Free T4 (fT4)</b> .....	S/0.5ml .....	2
2053 <b>Free T4 Dialysis* ! (frozen)</b> .....	S/0.5ml .....	11-15
127 <b>Triiodothyronine (T3)</b> .....	S/0.5ml .....	2
1126 <b>Free T3 (fT3)</b> .....	S/0.5ml .....	2
118 <b>Thyroglobulin Ab (TgAb)</b> .....	S/0.5ml .....	2
2133 <b>T4 + TSH (dog, cat)</b> .....	S/1ml .....	dog: ••, cat: 2
2131 <b>fT4 + TSH (dog, cat)</b> .....	S/1ml .....	2
2130 <b>fT4 + TSH + Thyroglobulin Ab (dog)</b> .....	S/1ml .....	2

	Sample	Turnaround time
2132 <b>T4 + TSH + Thyroglobulin Ab (dog)</b> .....	S/1ml .....	2
3140 <b>TRH Stimulation Test (2 x T4)</b> .....	S/2x0.5ml .....	••
182 <b>TRH Stimulation Test (3 x fT4)</b> .....	S/3x0.5ml .....	2
2277 <b>TRH Stimulation Test, Dog, Extended</b> .....	S/3x0.5ml .....	••
2 x T4 + 2 x TSH		
2086 <b>Thyroid Profile Dog</b> .....	S/1.5ml .....	8-11
T4, fT4, T3, fT3, TSH, thyroglobulin Ab, T4 Ab*, T3 Ab*		
2279 <b>Thyroid Profile Cat</b> .....	S/1.5ml .....	2
T4, fT4, T3, fT3, TSH, cholesterol		
<b>Parathyroid</b>		
114 <b>Parathormone (PTH) !</b> .....	S/1ml .....	2
1840 <b>Parathormone (rP)* !</b> .....	EP/1ml .....	11
<b>Sex Hormones / Pregnancy</b>		
134 <b>Oestradiol (dog/cat)</b> .....	S/0.5ml .....	Tue/Fri
135 <b>Progesterone</b> .....	S/0.5ml .....	••
136 <b>Testosterone (dog, cat)</b> .....	S/0.5ml .....	2
1360 <b>HCG Stimulation Test</b> .....	S/2x0.5ml .....	2
2 x testosterone		
2212 <b>Anti-Müllerian Hormone (AMH) !</b> .....	S/0.5ml .....	2

## Tumour Markers

611 <b>Carcino-embryonic Antigen (CEA)</b> .....	S/1ml .....	2
612 <b>Alpha-Fetoprotein (AFP)</b> .....	S/1ml .....	2
1038 <b>Thymidine Kinase !</b> .....	S/0.5ml .....	Tue/Fri
442 <b>NEW! Survivin (dog) !</b> .....	S/0.5ml .....	3-6
443 <b>NEW! Ki-67 (dog) !</b> .....	S/0.5ml .....	3-6
1800 <b>Tumour Diagnostics Small !</b> .....	S/1ml .....	Tue/Fri
thymidine kinase, CRP (dog), SAA (cat), haptoglobin		
441 <b>NEW! Tumour Diagnostics Large (dog) !</b> .....	S/1.5ml .....	3-6
Ki-67, survivin, thymidine kinase, CRP, haptoglobin, AP, LDH, vit D (25 OH)		
8675 <b>BRAF Mutation Test (dog)</b> .....	GW,OT,H.....	4-5

Sample Turnaround time

Sample Turnaround time

## Others

1051 <b>IGF I</b> (Somatomedin) ! .....	S/0.5ml .....	2
1510 <b>Erythropoietin</b> ! .....	S/0.5ml .....	Fri
if possible, frozen		
1040 <b>CRP</b> (C-reactive protein) (dog) .....	S/0.5ml .....	2
208 <b>Haptoglobin</b> .....	S/0.5ml .....	2
1041 <b>SAA</b> (Serum Amyloid A) (cat) .....	S/0.5ml .....	2
2087 <b>CPSE</b> (prostate) (dog) ! .....	S,EP,HP/0.5ml .....	2-6
1194 <b>Serotonin</b> (dog) ! .....	S/0.5ml .....	Tue
fasted, light-protected (tube wrapped in aluminium paper)		
1330 <b>UPDATE! Behaviour Profile</b> (dog) ! .....	EB+S/1ml .....	Tue
serotonin, T4, vit. B6 (fasted; serum light-protected - tube wrapped in aluminium paper)		
2016 <b>Gluten Sensitivity</b> (dog) .....	S/0.5ml .....	6
tissue transglutaminase IgA, modified gliadin peptide IgG		
1076 <b>Metabolome Analysis</b> (dog) ! .....	S/3ml .....	on demand
on demand only		
1222 <b>Feed Ration Calculation</b> .....		8

## Drugs / Toxicology

617 <b>Phenobarbital</b> .....	S/1ml .....	2
619 <b>Bromide</b> .....	S/1ml .....	5
1406 <b>Levetiracetam</b> (Keppra) .....	S/1ml .....	Tue
608 <b>Digoxin</b> .....	S/1ml .....	2
2085 <b>Ciclosporin</b> .....	EB/1ml .....	2
2011 <b>Poison Screening*</b> .....	H,V,GW,(EB) .....	8-11
preliminary report required		
548 <b>NEW! α-Chloralose</b> ! .....	S,HP,H/2ml .....	3-4
97 <b>NEW! Colchicine</b> ! .....	H/5ml .....	3-4
frozen		
105 <b>Lead</b> .....	EB,HB/1ml .....	2-3
1414 <b>Cadmium</b> .....	S/2ml .....	8
84 <b>Cobalt</b> .....	S,H/1ml .....	8
1106 <b>Thallium</b> (Rodenticides) .....	H/2ml .....	8
1204 <b>Heavy Metal Toxicity Screening</b> .....	S+EB/2ml+H/5ml .....	8
arsenic, lead, cadmium, chrome, copper, manganese, mercury, thallium, zinc		

## Serology

### Infectious Diseases (Antibodies/Antigens)

145 <b>Adenovirus 1</b> (CAV 1, HCC) (dog) .....	EP,HP,S/0.5ml .....	2
1572 <b>Anaplasma phagocytophilum</b> .....	EP,HP,S/0.5ml .....	2
1220 <b>Angiostrongylus vasorum - Antigen</b> (dog)....	S/0.5ml .....	2
567 <b>Aspergillus</b> .....	S/0.5ml .....	2
1501 <b>Aujeszky's Disease Virus</b> (Pseudorabies) (dog) S/1ml .....		4
571 <b>Babesia</b> (microscopical) .....	EB/1ml+BS .....	2
576 <b>Babesia</b> (dog, cat) .....	EP,HP,S/0.5ml .....	2
566 <b>Bartonella henselae</b> .....	EP,HP,S/0.5ml .....	2
5010 <b>Bornavirus*</b> .....	S/0.5ml .....	8
176 <b>Borrelia</b> (IgG+IgM) .....	EP,HP,S/0.5ml .....	2-3
833 <b>Borrelia</b> (blot) .....	HP,S/0.5ml .....	4
3069 <b>Brucella canis</b> (tube aggl. test)* .....	S/1ml .....	6-11
1166 <b>Brucella canis</b> (IFAT) .....	S/1ml .....	2
1147 <b>Calicivirus</b> (FCV) (cat) .....	EP,HP,S/0.5ml .....	2
565 <b>Chlamydia</b> .....	EP,HP,S/0.2ml .....	2
2508 <b>Cryptococcus - Antigen</b> .....	S/0.5ml .....	2-3
agglutination		
610 <b>Dirofilaria - Antigen</b> .....	EP,HP,S/0.5ml .....	2
616 <b>NEW! Dirofilaria - Antigen</b> (heat pretreatment) .....	EP,HP,S/1ml .....	Thu
144 <b>Distemper Virus</b> (CDV) (dog) .....	EP,HP,S/0.5ml .....	2
1423 <b>Echinococcus</b> .....	HP,S/0.5ml .....	6
572 <b>Ehrlichia canis</b> .....	EP,HP,S/0.5ml .....	2
2020 <b>Encephalitozoon cuniculi</b> (IgG) .....	EP,HP,S/0,5ml .....	2-3
2120 <b>Encephalitozoon cuniculi</b> (IgM+IgG) .....	EP,HP,S/0.5ml .....	2-3
6000 <b>FeLV, FCoV, FIV</b> .....	EP,HP,S/0.4ml .....	2
Ab: FCoV, FIV / Ag: FeLV		
130 <b>FeLV Antigen</b> .....	EP,HP,S/0.5ml .....	••
4131 <b>Feline Coronavirus</b> (FCoV) .....	AS,HP,S/0.5ml .....	2
133 <b>FIV</b> .....	EP,HP,S/0.5ml .....	2
1402 <b>FIV Blot*</b> .....	S/1ml .....	8
147 <b>Herpes-/Calicivirus</b> (cat) .....	EP,HP,S/0.5ml .....	2

	Sample	Turnaround time
146	<b>Herpesvirus</b> (CHV, FHV) (dog, cat) .....	HP,S/0.5ml..... 2
2012	<b>Leishmania</b> (ELISA) (dog, cat) .....	S/0.5ml ..... 2
198	<b>Leishmania</b> (IFAT) (dog).....	EP,HP,S/0.5ml ..... 2
157	<b>Leptospira</b> (MAT).....	EP,HP,S/0.5ml ..... 2
564	<b>Listeria</b> (Type 1 + 4b).....	EP,HP,S/0.5ml ..... 2
2017	<b>Microfilaria</b> (Knott test) (dog, cat).....	EB/0.5ml ..... 2
569	<b>Neospora caninum</b> .....	EP,HP,S/0.5ml ..... 2
578	<b>Parvovirus</b> (CPV) (dog).....	EP,HP,S/0.5ml ..... 2
148	<b>Parvovirus</b> (FPV) (cat) .....	EP,HP,S/0.5ml ..... 2
1225	<b>Rabies*</b> .....	S/1ml ..... 8-11
	(EU countries only; use separate submission form)	
2079	<b>Rickettsia conorii</b> .....	EP,HP,S/0.5ml ..... 2
2080	<b>Rickettsia rickettsii</b> .....	EP,HP,S/0.5ml ..... 2
568	<b>Sarcoptes</b> (dog) .....	S/0.5ml ..... 2-3
1266	<b>SARS-CoV-2</b> (IgG).....	S/0.5ml ..... 4
	dogs, cats and other animal species (except rabbits)	
2544	<b>Tetanus*</b> .....	S/2ml ..... 8
555	<b>Tick-borne Encephalitis V.</b> (TBE) (IgG) .....	S/0.5ml ..... Tue/Fri
556	<b>Tick-borne Encephalitis V.</b> (TBE) (IgM).....	S/0.5ml ..... Tue/Fri
557	<b>Tick-borne Encephalitis V.</b> (TBE) (IgG, CSF) ...	LQ/0.2ml..... Tue/Fri
132	<b>Toxoplasma</b> (IgG + IgM).....	EP,HP,S/0.5ml ..... 2
2072	<b>Trypanosoma evansi</b> (dog).....	S/0.5ml ..... 2
2529	<b>Vaccination Control</b> (dog) .....	EP,HP,S/0.5ml ..... 2
	distemper-, parvo-, adenovirus	
2529	<b>Vaccination Control</b> (cat) .....	EP,HP,S/0.5ml ..... 2
	calicivirus, herpesvirus, parvovirus (panleukopenia)	

See pages 35, 41, 44, 45, 46 for more specific tests for equines, farm animals, small mammals, birds and reptiles.

## Single Determinations - Clinical Chemistry

### Enzymes

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

### Substrates

63	<b>Albumin</b> .....	S,EP,HP/0.5ml ..... ••
128	<b>Bile Acids</b> (fasted).....	S/0.5ml ..... 2
15	<b>Bilirubin, direct</b> (II).....	S,EP,HP/0.5ml ..... 2
16	<b>Bilirubin, total</b> .....	S,EP,HP/0.5ml ..... ••
17	<b>Cholesterol</b> .....	S,EP,HP/0.5ml ..... ••
607	<b>Cholesterol</b> (HDL) .....	S,EP,HP/0.5ml ..... 2
606	<b>Cholesterol</b> (LDL).....	S,EP,HP/0.5ml ..... 2
23	<b>Creatinine</b> .....	S,EP,HP/0.5ml ..... ••
222	<b>Cystatin C</b> .....	S/0.5ml ..... 2
3011	<b>Fructosamine</b> .....	S/1ml ..... ••
20	<b>Glucose</b> .....	NaFB/1ml ..... ••
107	<b>β-HBA</b> .....	S/0.5ml ..... 2
24	<b>Lactate</b> .....	NaFB/0.5ml ..... 2
56	<b>NEFA</b> (free fatty acids).....	S/0.5ml ..... 2
19	<b>Protein</b> .....	S,EP,HP/0.5ml ..... ••
460	<b>SDMA</b> .....	S,HP/0.5ml ..... 2

	Sample	Turnaround time
25	Triglycerides .....	S,EP,HP/0.5ml ..... ••
21	Urea .....	S,EP,HP/0.5ml ..... ••
200	Uric acid .....	S,EP,HP/0.5ml ..... 2
<b>Minerals and Electrolytes</b>		
26	Calcium .....	S/0.5ml ..... ••
1521	Calcium ionized (airtight) .....	S/0.5ml ..... 3-4
27	Chloride .....	S/0.5ml ..... 2
84	Cobalt .....	S,H/1ml ..... 8
30	Copper .....	S,HP/0.5ml ..... 2
2300	Iodine .....	S/1ml ..... 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
<b>Vitamins</b>		
4007	Large Vitamin Profile ! vitamins A, B1, B2, B6, B12, D (25 OH), E, folic acid	S+EB/3ml ..... 6
4005	Small Vitamin Profile ! vitamins A, D (25 OH), E, B12, folic acid	S/3ml ..... 4
2267	Vitamin A ! .....	S/1ml ..... 4
217	Vitamin B1 ! .....	EB,HB/1ml ..... 6
236	Vitamin B2 ! .....	EB,HB/1ml ..... 6
238	Vitamin B6 ! .....	EB,HB/1ml ..... 6
3004	Vitamin B12 .....	S/0.5ml ..... 2
2269	Vitamin D (25 OH) ! .....	S/0.5ml ..... 2
4009	Vitamin E ! .....	S/0.5ml ..... 4
2517	Vitamin H (Biotin)* .....	S/0.5ml ..... 11
3005	Folic acid .....	S/0.5ml ..... 2

## Maldigestion and Diarrhoea

### Faecal Profiles

**Sample: 3/4 filled stool sample 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 and mycology, salmonella, gas producers, endoparasites, giardia antigen (EIA), cryptosporidia antigen (EIA)			
1662	Faecal Profile Puppy/Kitten .....	FA .....	3-4
bacteriology, mycology, salmonella, gas producers, endoparasites, parvovirus, 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			
1290	UPDATE! Dysbiosis Profile (dog) .....	FA .....	4-6
key bacteria microbiome quantitative (PCR), mycology, calprotectin, pancreatic elastase, endoparasites			
1290	UPDATE! Dysbiosis Profile (cat) .....	FA .....	4-6
key bacteria microbiome quantitative (PCR), mycology, calprotectin, microscopic nutritive digestion, endoparasites			
1504	BARF Faecal Profile .....	FA .....	4
salmonella, yersinia, campylobacter, listeria, endoparasites (turnaround time yersinia: up to 28 days)			
1507	Faecal Pathogenic Bacteria Profile .....	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			
<b>Single Determinations - Microbiology</b>			
189	Clostridioides difficile toxin A and B .....	FA .....	2-3
188	Clostridium perfringens enterotoxin .....	FA .....	2-3
1508	Yersinia and Campylobacter .....	FA .....	29
175	Salmonella .....	FA .....	3-4
2177	Mycobacteria .....	FA .....	2
microscopic detection of acid-fast rods			

Sample Turnaround time

195 **Serological Differentiation**.....  
if applicable, in addition to bacteriological testing

725 **Antibiogram** ..... fixed price.....

**Virology**

Sample: 3/4 filled stool sample container

154 **Virological Faecal Profile** (EIA) ..... FA ..... 2-4  
parvo-, rota-, coronavirus

2172 **Parvovirus** (EIA) (dog, cat) ..... FA ..... 2

172 **Rotavirus** (EIA) ..... FA ..... 2-3

8025 **Coronavirus, enteric** (PCR) (dog) ..... FA ..... 2-4

8001 **Coronavirus** (PCR) (cat) (qualitative)..... FA/AS,LQ,EB ..... 2-4  
in cases of diarrhoea only from FA

for more tests, see PCR assays on page 16

**Maldigestion / Malabsorption**

3012 **Pancreas Elastase** (dog) ..... FA ..... 3-4

153 **Microscopical Nutritive Digestion** (dog, cat). FA ..... 2

61 **Bile Acids** (cholegenic diarrhoea)..... FA ..... Tue

**Inflammatory / Exsudative Processes**

444 **Chemical Detection of Blood** ..... FA ..... 2

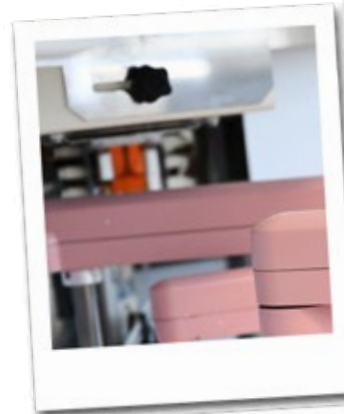
290 **Calprotectin** (dog, cat)..... FA ..... 2  
suspected IBD

**Microbiome Analysis**

1290 **UPDATE! Dysbiosis Profile** (dog)..... FA ..... 3-6  
key bacteria microbiome quantitative (PCR), mycology, calprotectin,  
pancreatic elastase, endoparasites

1290 **UPDATE! Dysbiosis Profile** (cat)..... FA ..... 3-6  
key bacteria microbiome quantitative (PCR), mycology,  
calprotectin, microscopic nutritive digestion, endoparasites

1291 **Dysbiosis Analysis** (dog, cat)..... FA ..... 3-6  
key bacteria microbiome quantitative (PCR)



Sample Turnaround time

Sample Turnaround time

## Parasitology

### Endoparasites

Sample: 3/4 filled stool sample container

149	<b>Endoparasites</b> .....	FA	2
	flotation and SAFC		
1187	<b>UPDATE! Endoparasite Profile</b> (dog, cat) .....	FA	2
	endoparasites, giardia antigen (EIA)		
1162	<b>Large Feline Endoparasite Profile</b> .....	FA	2-4
	endoparasites, giardia antigen (EIA), PCR: Trichostrongylus axei		
585	<b>Baermann Test</b> (lungworm larvae) .....	FA	3
436	<b>NEW! Endoparasites + IFAT</b> .....	FA	2
	endoparasites, Giardia IFAT, Cryptosporidia IFAT (3-day pooled faecal sample)		
8261	<b>Angiostrongylus vasorum</b> (PCR) (dog) .....	EB,BAL,FA	2-4
8789	<b>NEW! Lungworm Profile Dog</b> (PCR) .....	FA,BAL,EB	2-4
	Angiostrongylus vasorum, Crenosoma vulpis		
8790	<b>NEW! Lungworm Profile Cat</b> (PCR) .....	FA,BAL,EB	2-4
	Aelurostrongylus abstrusus, Troglostrongylus brevior		
185	<b>Giardia sp. - Antigen</b> (EIA) .....	FA	2
8340	<b>Giardia</b> (PCR) .....	FA	2-4
187	<b>Cryptosporidia - Antigen</b> (EIA) (mammals) .....	FA	Mon/Wed/Fri
8416	<b>Cryptosporidia</b> (PCR) .....	FA	2-4
8103	<b>Toxoplasma gondii</b> (PCR) .....	FQ/LQ	2-4
8999	<b>Trichostrongylus axei</b> (PCR) .....	FA	2-4

### Ectoparasites

tests for skin/hair, see Microbiology on page 15

## Microbiology

### Swab / Aspirate

156	<b>Bacteriology</b> (aerobic) + <b>Mycology</b> .....	TM,GW	3-8
1061	<b>Bacteriology</b> (aerobic + anaerobic) .....	TM,GW	3-8
150	<b>Bacteriology</b> (aerobic) .....	TM,GW	3-4
165	<b>Detection of Anaerobes</b> .....	TM,GW	8
2151	<b>Mycology</b> .....	TM,GW	3-8
725	<b>Antibiogram</b> (if applicable) .....	fixed price	
727	<b>Antibiogram Anaerobes</b> .....	fixed price	

### Skin / Hair

1157	<b>Bacteriology + Mycology + Ectoparasites</b> ..	HA,HT,K	2-29
1156	<b>Bacteriology</b> (aerobic) + <b>Mycology</b> .....	HA,HT,K	3-29
150	<b>Bacteriology</b> (aerobic) .....	HA,HT	3-4
151	<b>Mycology</b> .....	HA,HT,K	3-29
	dermatophytes and yeasts		
8489	<b>Dermatophytes</b> (PCR) .....	HA,HT,K	3-5
2109	<b>Trichogram</b> .....	HA	2
174	<b>Ectoparasites</b> .....	HA,HT	2
8577	<b>Demodex</b> (dog/cat) (semi-quantitative) (PCR) .....	HT	2-4
8178	<b>Sarcoptes canis</b> (PCR) .....	HT	2-4

### Urine

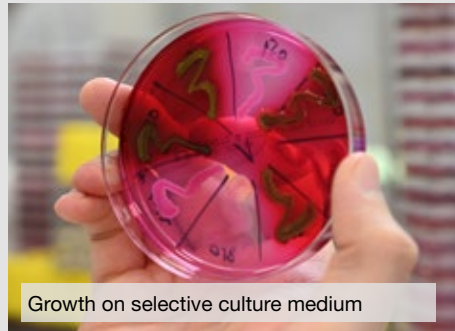
1261	<b>Urinalysis/Sediment + Bact. Culture</b> .....	H/6ml	3-4
	dog: please indicate if treated with allopurinol		
1262	<b>Urinalysis/Sediment + Bact. Culture</b> (swab) ..	H/5ml+TM	3-4
	dog: please indicate if treated with allopurinol		
161	<b>Urine Bacteriological Culture</b> .....	H/1ml	3-4

### Sensitivity Testing

1725	<b>Extended Antibiogram</b> .....		
1919	<b>Antimycogram</b> (yeasts) .....		3-6
1071	<b>Aromatogram Bacteria</b> .....		3
1072	<b>Aromatogram Yeasts</b> .....		3-8

## Microbiology at Laboklin

- Validation of results and case discussions by veterinarians specialising in microbiology and clinical laboratory diagnostics as well as by veterinarians with extensive experience in microbiology
- Use of site-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) and of bacteria and yeasts against essential oils (aromatograms)



MALDI-TOF (bacteriological identification)



Antibiograms – microdilution method

1640	<b>Analysis on multidrug resistant bacteria ....</b> 4xTM.....	4-5
	MRSA, ESBL, VRE, Carbapenemase producing bacteria (TM1: nose + cheek; TM2: skin (axle or groin) or conjunctiva; TM3: dog basket + feeding dish + floor; TM4: rectal)	
2217	<b>MRSA Differentiation .....</b>	4-5
	in addition to bacteriological testing	
2210	<b>MRSP Differentiation .....</b>	4-5
	in addition to bacteriological testing	
2218	<b>ESBL Differentiation.....</b>	4-5
	in addition to bacteriological testing	

### Special Microbiological Tests

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

### 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	<b>Injection Vaccine .....</b>	22
	chronic skin/ear infections (+ shipping fee)	
1551	<b>Oral Vaccine.....</b>	22
	chronic diarrhoea (+ shipping fee)	
1554	<b>Vaccine for Inhalation .....</b>	22
	chronic respiratory infections (+ shipping fee)	
1552	<b>Combination Vaccine (subcutaneous &amp; oral).....</b>	22
	chronic urogenital infections (+ shipping fee)	

## PCR Assays

8182	<b>Anaplasma phagocytophilum .....</b> EB,LQ,KM,SV,Z .....	2-4
8236	<b>Anaplasma platys.....</b> EB,Z.....	2-4
8261	<b>Angiostrongylus vasorum (dog) .....</b> EB,BAL,FA .....	2-4
8019	<b>UPDATE! Babesia (Piroplasmida).....</b> EB,Z.....	2-4
	also determines cytauxzoon, theileria; incl. species diff.	
8076	<b>Bartonella henselae .....</b> EB,LQ .....	2-4
8162	<b>Bordetella bronchiseptica .....</b> A .....	2-4
8343	<b>Bornavirus (mammals).....</b> LQ,EB .....	2-4
8010	<b>Borrelia .....</b> HT,LQ,SV,Z .....	2-4



	Sample	Turnaround time
8351	<b>Brucella canis</b> .....	A,EB,Sp,H,AM ..... 2-4
8589	<b>Campylobacter jejuni</b> .....	FA ..... 2-4
8052	<b>Cand. Neoehrlichia mikurensis</b> .....	EB,Z ..... 2-4
8398	<b>Canine Adenovirus 1 (CAV-1) (Hcc) (dog)</b> .....	EB,H,L ..... 2-4
8095	<b>Canine Adenovirus 2 (CAV-2) (dog)</b> .....	A ..... 2-4
8025	<b>Canine Enteric Coronavirus (CCoV)</b> .....	FA ..... 2-4
8766	<b>NEW! Canine Respiratory Coronavirus (CRCoV)</b> ...A.....	..... 2-4
8003	<b>Canine Distemper Virus (CDV) (qualitative)</b> .....	A,EB,LQ,H,FA ..... 2-4
8085	<b>Canine Distemper Virus (CDV) (quantitative)</b> ... A.....	..... 2-4
8509	<b>Canine Herpesvirus (CHV)</b> .....	A,AM,EB ..... 2-4
8096	<b>Canine Parainfluenzavirus (CPIV)</b> .....	A ..... 2-4
8024	<b>Canine Parvovirus (CPV) (qualitative)</b> .....	FA,EB ..... 2-4
8084	<b>Canine Parvovirus (CPV) (quantitative)</b> .....	FA ..... 2-4
8004	<b>Chlamydia</b> .....	A,FA,AM ..... 2-4
8161	<b>Circovirus (dog)</b> .....	FA,EB ..... 2-4
8416	<b>Cryptosporidia</b> .....	FA ..... 2-4
8787	<b>NEW! Cytauxzoon (Piroplasmida)</b> ..... also determines babesia, theileria; incl. species diff.	EB,Z ..... 2-4
8577	<b>Demodex (dog, cat) (semiquantitative)</b> .....	HT ..... 2-4
8489	<b>Dermatophytes</b> .....	HA,HT,K ..... 3-5
8724	<b>Echinococci</b> .....	FA,GW ..... 2-4
8181	<b>Ehrlichia canis</b> .....	EB,KM,Z ..... 2-4
8044	<b>Feline Calicivirus (FCV)</b> .....	A,EB ..... 2-4
8001	<b>Feline Coronavirus (FCoV) (qualitative)</b> .....	FA/AS,LQ,EB ..... 2-4
8282	<b>UPDATE! Feline Coronavirus (FCoV) (quantitative)</b> ..FA,AS,EB.....	..... 2-4
8009	<b>Feline Herpesvirus (FHV)</b> .....	A,AM,EB ..... 2-4
8024	<b>Feline Parvovirus (FPV) (qualitative)</b> .....	FA,EB ..... 2-4
8043	<b>FeLV Provirus</b> .....	EB,KM ..... 2-4
8268	<b>FIV Provirus</b> .....	EB ..... 2-4
8078	<b>FIV Provirus (quantitative)*</b> .....	EB ..... 8-15
8340	<b>Giardia</b> .....	FA ..... 2-4
8329	<b>Helicobacter spp.</b> .....	V ..... 2-4
8089	<b>Hepatozoon canis/felis</b> .....	EB,Z ..... 2-4
8223	<b>Influenza A Virus</b> .....	A ..... 2-4
8008	<b>Leishmania (qualitative)</b> .....	A,KM,Ln,HT,EB ..... 2-4
8234	<b>Leishmania (dog) (quantitative)</b> .....	EB,KM ..... 2-4

	Sample	Turnaround time
8031	<b>Leptospira</b> .....	H+EB,AM ..... 2-4
8101	<b>Microfilaria (qualitative)</b> .....	EB ..... 2-4
8529	<b>if positive: Differentiation</b> .....	EB ..... 2-4
8083	<b>Microfilaria (dog) (quantitative)</b> .....	EB ..... 2-4
	<b>Mycoplasma (dog)</b>	
8097	<b>mucous membrane</b> .....	A,AM ..... 2-4
570	<b>haemotropic</b> .....	EB ..... 2-4
	incl. species differentiation	
	<b>Mycoplasma (cat)</b>	
8082	<b>mucous membrane (M. felis)</b> .....	A,AM ..... 2-4
8511	<b>haemotropic</b> .....	EB ..... 2-4
	incl. species differentiation	
8029	<b>Neospora caninum</b> .....	FA/LQ ..... 2-4
8190	<b>Papillomavirus (dog,cat)</b> .....	HT ..... 2-4
8055	<b>Pox (Orthopoxvirus)</b> .....	K ..... 2-4
8455	<b>Rickettsia</b> .....	Z,EB,HT ..... 2-4
8060	<b>Salmonella</b> .....	FA ..... 2-4
8178	<b>Sarcoptes scabiei var. canis</b> .....	HT ..... 2-4
8545	<b>SARS-CoV-2</b> .....	A,BAL ..... 2-4
	all animal species, especially cats, ferrets, hamster; deep nasal/pharyngeal swab	
8021	<b>Tick-borne Encephalitis Virus (TBE)</b> .....	LQ,S,Z ..... 2-4
8103	<b>Toxoplasma gondii</b> .....	FA/LQ ..... 2-4
8999	<b>Tritrichomonas foetus</b> .....	FA ..... 2-4
8588	<b>Yersinia enterocolitica</b> .....	FA ..... 2-4

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

*Additional PCR assays can be found on pages 35, 41, 44, 46, 47, 48*

## PCR Profiles

### Dog

8339	<b>Anaemia Small (dog)</b> .....	EB ..... 2-4
	Anaplasma phagocytophilum, babesia (incl. species diff.)	
8074	<b>Anaemia Vector-borne (dog)</b> .....	EB ..... 2-4
	babesia (incl. species diff.), Ehrlichia canis, A. phagocytophilum, haemotropic mycoplasma (incl. species diff.)	

	Sample	Turnaround time
<b>8168 Diarrhoea Pathogens Dog</b> ..... FA .....		2-4
coronavirus, parvovirus, circovirus, giardia, cryptosporidia		
<b>8580 Eye (dog)</b> ..... A .....		2-4
CHV, chlamydia, mycoplasma		
<b>8789 NEW! Lungworm Dog</b> ..... FA,BAL,EB .....		2-4
Angiostrongylus vasorum, Crenosoma vulpis		
<b>8203 Neurology (dog)</b> ..... LQ/0.5ml .....		2-4
protein, IgA, CRP, TBE Ab, PCR: distemper virus, Neospora caninum, Toxoplasma gondii, Anaplasma phagocytophilum		
<b>8500 Neurology Small (dog)</b> ..... LQ/0.5ml .....		2-4
protein, PCR: distemper virus, Neospora caninum, Toxoplasma gondii		
<b>8165 Reproduction (dog)</b> ..... A,AM.....		2-4
CHV, chlamydia, mycoplasma, Brucella canis		
<b>8163 UPDATE! Respiratory I (dog)</b> ..... A .....		2-4
CHV, CAV-2, CPiV, CRCoV, influenza A virus, distemper virus (CDV), Bordetella bronchiseptica, mycoplasma		
<b>8769 NEW! Respiratory II (dog)</b> ..... A .....		2-4
CAV-2, CPiV, CRCoV, Bordetella bronchiseptica, mycoplasma		
<b>8164 UPDATE! Respiratory III (dog)</b> ..... A .....		2-4
CPiV, CRCoV, mycoplasma		
<b>Cat</b>		
<b>8168 Diarrhoea Pathogens Cat</b> ..... FA .....		2-4
coronavirus, Tritrichomonas foetus, giardia, parvovirus, cryptosporidia		
<b>8338 Eye (cat)</b> ..... A .....		2-4
FHV, chlamydia, Mycoplasma felis		
<b>8515 Flea (cat)</b> ..... EB,FL.....		2-4
haemotropic mycoplasma (incl. species diff.), rickettsia, Bartonella henselae		
<b>8790 NEW! Lungworm Cat</b> ..... FA,BAL,EB .....		2-4
Aelurostrongylus abstrusus, Troglstrongylus brevior		
<b>8414 Neurology (cat)</b> ..... LQ/0.2ml .....		2-4
coronavirus, Toxoplasma gondii, Bartonella henselae, bornavirus		
<b>8165 Reproduction (cat)</b> ..... A,AM.....		2-4
FHV, chlamydia, Mycoplasma felis		
<b>8169 Respiratory I (cat)</b> ..... A .....		2-4
FHV, FCV, chlamydia, Mycoplasma felis, Bordetella bronchiseptica		
<b>8087 Respiratory II (cat)</b> ..... A .....		2-4
FHV, FCV, chlamydia, Mycoplasma felis		
<b>8167 Respiratory III (cat)</b> ..... A .....		2-4
FCV, FHV, chlamydia		
<b>8045 Respiratory IV (cat) (FCV, FHV)</b> ..... A .....		2-4

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

**Additional**

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

Additional PCR profiles can be found on 36, 42, 44, 46, 47, 48

**Allergy**

**Dog / Cat**

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

**Screening Test Dog / Cat**

<b>7105 Allergy Screening Test</b> ..... S/2ml .....		3
mites, pollen, moulds, flea saliva		

**Main Tests**

<b>7106 Seasonal Panel</b> ..... S/1ml .....		3
grasses, weeds, tree pollen; incl. CHO test and CCD blocking as needed		
<b>7107 Perennial Panel</b> (moulds, mites)..... S/0.5ml .....		3
<b>7116 Feathers/Hair/Epithelia</b> ..... S/0.5ml .....		8
cat, dog, rabbit, guinea pig, parrot, feather mix		
<b>7130 Insect Panel</b> ..... S/0.5ml .....		8
deerfly, gnat, mosquito, horse fly, stable fly, cockroach		

## Allergy testing at Laboklin

### A complete range of tests for dogs and cats

- Allergy testing for environmental allergens – Fcε-epsilon receptor test:
  - Affordable step-by-step diagnostics: screening and main tests
  - Rare allergens: feathers, hair, scales, insects, malassezia, Mediterranean allergens, hymenoptera
  - Seasonal allergens with CCD blocking (cross reactive carbohydrate side chains)
  - Country-specific profiles available (Nordic, Mediterranean, China)
- Clinically evaluated food allergen tests:
  - IgE and IgG against food components: general, extended and exotic allergens (lists available at [www.laboklin.com/allergy](http://www.laboklin.com/allergy); e.g. including horse, kangaroo, Hermetia (insects), sweet potato)
  - Microarray technology: low sample volume, high reliability (each allergen is tested in triplicate)
  - Pruritus profiles: individual tests listed above combined as a package and therefore cheaper and faster

### 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
- ASIT including insects

### Fast results

- Allergy testing within 3-8 days
- ASIT within 3-4 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)

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, cat) .....	S/0.5ml .....	3
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, venison, 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 Feed Ration Calculation .....		8
------------------------------------	--	---

### 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 Artuvetrim® 1-4 allergenen (dog, cat).....		14-21
sufficient for 10 months; shipping fee included		
6512 Artuvetrim® 5-8 allergenen (dog, cat) .....		14-21
sufficient for 10 months; shipping fee included		

# Laboratory Diagnostics in Oncology

## Immunophenotyping

of blood and lymph node aspirates

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

## Genetic detection

- PARR: lymphocyte clonality dog, cat
- BRAF: tumour mutation, e.g. urinary bladder dog
- RCND: predisposition for renal carcinoma & dermatofibrosis German Shepherd

## Tumour markers

- Thymidine kinase
- Survivin
- Ki-67
- Carcinoembryonic Antigen (CEA)
- Alpha-Fetoprotein (AFP)
- and others

## Cytology

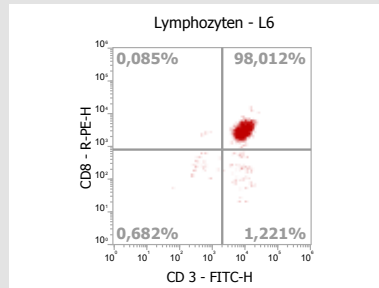
- tumour cells
- tumour histogenesis/dignity if applicable

## Histology

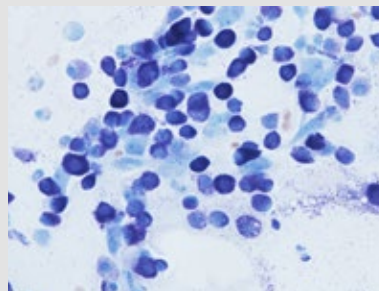
- tumour diagnosis
- tumour grading if applicable, e.g. sarcoma
- evaluation of resection margins

## Immunohistology

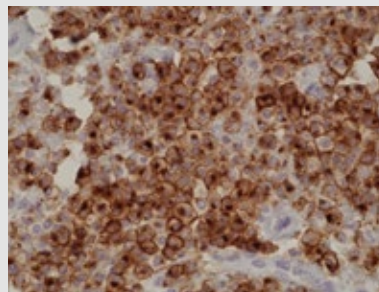
- differentiation, e.g. mast cell tumour



Immunophenotyping by flow cytometry



Mast cell tumour, dog



Immunohistology mast cell tumour dog: c-KIT expression pattern I

# Pathology

## Histology / Immunohistology

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

## Cytology

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

## Additional Tests

- 8418 **Lymphocyte Clonality** (PARR) ..... 4-6
- 8675 **BRAF Mutation Test** (dog) ..... GW,OT,H ..... 4-5
- 156 **Bacteriology** (aerobic) + **Mycology** ..... TM,GW ..... 3-8
- 1061 **Bacteriology** (aerobic + anaerobic) ..... TM,GW ..... 3-8
- 150 **Bacteriology** (aerobic) ..... TM,GW ..... 3-4
- 165 **Detection of Anaerobes** ..... TM,GW ..... 8
- 2151 **Mycology** ..... TM,GW ..... 3-8
- 725 **Antibiogram** (if applicable) ..... fixed price ..... •
- 727 **Antibiogram Anaerobes** ..... fixed price ..... •

## Genetics - Dog

### Hereditary Diseases

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

#### Auditory

8269 **UPDATE!** Hereditary deafness (EOAD) ..... 7-14  
Dobermann, Rhodesian Ridgeback, Rottweiler

#### Cardiologic

8543 **Cardiomyopathy with juvenile mortality** (CJM) ..... 7-14  
Belgian Shepherd

8363 **UPDATE!** Dilated cardiomyopathy (DCM) ..... 7-14  
Giant Schnauzer, Schnauzer

8764 **NEW!** Dilated cardiomyopathy (DCM) ..... 7-14  
Welsh Springer Spaniel

8761 **NEW!** Dilated cardiomyopathy DCM1 (PDK4) ..... 7-14  
Dobermann

8762 **NEW!** Dilated cardiomyopathy DCM2 (Titin) ..... 7-14  
Dobermann

8739 **NEW!** 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

#### Dermatologic

8317 **Congenital ichthyosis** ..... 7-14  
Great Dane

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 **NEW!** **Ichthyosis type 2** ..... 7-14  
Golden Retriever

8198 **Junctional epidermolysis bullosa** (JEB) ..... 3-14  
German Shorthaired Pointer

8273 **Lethal acrodermatitis** (LAD) ..... 3-5  
Bull Terrier, Miniature Bull Terrier

#### Haematologic

8737 **NEW!** **Afibrinogenemia** (AFG) ..... 7-14  
Dachshund

8151 **UPDATE!** **Factor VII deficiency** (F7) ..... 3-5  
Airedale Terrier, Alaskan Klee Kai, Beagle, Deerhound,  
Finnish Hound, Giant Schnauzer, Papillon, Phalène, Welsh Springer Spaniel

8077 **Glanzmann thrombasthenia** (GT) ..... 7-14  
Pyrenean Mountain Dog

8232 **Haemophilia A** (factor VIII deficiency) **Patent/License LABOKLIN** ..... 7-14  
Havanese

8689 **Haemophilia A** (factor VIII deficiency) ..... 3-14  
Boxer, German Shepherd, 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

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 Tulear, Dobermann, Drentsche Patridge Dog, German Pinscher, Kerry Blue Terrier, Kromfohrlander, Manchester Terrier, Papillon, Poodle, Stabyhoun, 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)** ..... 7-14  
Brittany Spaniel
- 8012 **Canine leucocyte adhesion deficiency (CLAD)** ..... 3-5  
Irish Red and White Setter, Irish Red Setter
- 8327 **Leukocyte adhesion deficiency type 3 (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 **Acatlasemia (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
- 8068 **Muscular dystrophy (MD)**..... 3-14  
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, Labrador Retriever, Miniature Schnauzer
- 8172 **Nemalin myopathy (NM)**..... 7-14  
American Bulldog
- 8305 **X-linked myopathy (XL-MTM)** ..... 7-14  
Labrador Retriever, Rottweiler

**Neoplastic**

- 8301 **Renal cystadenocarcinoma and nodular dermatofibrosis (RCND)**..... 3-14  
German Shepherd



Genetics	DOG
<p><b>Nephrologic</b></p> <p>8131 <b>Familial nephropathy*</b> (FN) ..... 7-14 English Cocker Spaniel, Welsh Springer Spaniel</p> <p>8192 <b>Familial nephropathy</b> (FN) ..... 7-14 English Springer Spaniel, Samoyed</p> <p>8272 <b>Fanconi syndrome</b> (Basenji) ..... 7-14</p> <p>8476 <b>Polycystic kidney disease</b> (PKD) ..... 7-14 Bull Terrier</p> <p>8492 <b>UPDATE! Protein losing nephropathy</b> (PLN) ..... 3-5 Airedale Terrier, Irish Soft-Coated Wheaten Terrier</p> <p>8345 <b>Renal dysplasia and hepatic fibrosis</b> (RDHN) ..... 7-14 Norwich Terrier</p> <p><b>Neurologic</b></p> <p>8038 <b>Acral mutilation syndrome</b> (AMS) ..... 3-5 English Cocker Spaniel, English Pointer, English Springer Spaniel, French Spaniel, German Short-haired Pointing Dog</p> <p>8313 <b>Alaskan Husky encephalopathy</b> (AHE) ..... 3-5 Husky</p> <p>8479 <b>Alaskan Malamute polyneuropathy</b> (AMPN) ..... 3-5 Alaskan Malamute</p> <p>8601 <b>Alexander disease</b> (AxD) ..... 7-14 Labrador Retriever</p> <p>8614 <b>Behaviour propensity</b> ..... 7-14 Belgian Shepherd (Malinois only)</p> <p>8575 <b>Canine multiple system degeneration</b> (CMSD) ..... 7-14 Chinese Crested Dog, Kerry Blue Terrier</p> <p>8314 <b>Cerebral dysfunction</b> (CDFs) ..... 3-14 Stabijhoun</p> <p>8772 <b>NEW! Cerebellar ataxia*</b> (CA) ..... 28-42 Italian Spinone</p> <p>8538 <b>Charcot-Marie-Tooth neuropathy</b> (CMT) ..... 3-5 Miniature Schnauzer</p> <p>8697 <b>CNS atrophy with cerebellar ataxia</b> (CACA) ..... 7-14 Belgian Shepherd</p> <p>8758 <b>NEW! Color dilution and neurological signs</b> (CDN) ..... 7-14 Dachshund</p> <p>8260 <b>Dandy-Walker-like malformation</b> (DWLM) ..... 3-5 Eurasian</p> <p>8202 <b>Episodic falling</b> (EF) Patent/License LABOKLIN ..... 7-14 Cavalier King Charles Spaniel</p>	<p>8152 <b>Exercise induced collapse</b> (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</p> <p>8467 <b>Finnish Hound ataxia</b> (FHA) ..... 3-5 Finnish Hound, Norrbottenspitze</p> <p>8016 <b>Fucosidosis</b> ..... 7-14 English Springer Spaniel</p> <p>8007 <b>Globoid cell leucodystrophy/Krabbe disease</b> ..... 3-14 Cairn Terrier, Irish Red Setter, West Highland White Terrier</p> <p>8066 <b>GM1-Gangliosidosis</b> (GM1) ..... 3-14 Portuguese Waterdog, Shiba Inu, Siberian Husky</p> <p>8208 <b>GM2-Gangliosidosis</b> (GM2) ..... 7-14 Japanese Chin, Poodle, Shiba Inu</p> <p>8449 <b>UPDATE! Hereditary ataxia</b> (HA) ..... 3-14 Gordon Setter, Norwegian Buhund, Norwegian Elkhound, Old English Sheepdog</p> <p>8179 <b>Hereditary neuropathy</b> (GHN) ..... 7-14 Greyhound</p> <p>8284 <b>Juvenile brain disease</b> (JBD) ..... 3-14 Jack Russell Terrier, Parson Russell Terrier</p> <p>8459 <b>Juvenile epilepsy</b> (JE) ..... 3-5 Lagotto Romagnolo</p> <p>8271 <b>Juvenile laryngeal paralysis &amp; polyneuropathy</b> (JLPP) ..... 3-5 Rottweiler, Russian Black Terrier</p> <p>8557 <b>Juvenile myoclonic epilepsy</b> (JME) ..... 3-5 Rhodesian Ridgeback</p> <p>8125 <b>L-2-hydroxyglutaric aciduria</b> (L2HGA) ..... 3-14 Staffordshire Bull Terrier, Yorkshire Terrier</p> <p>8005 <b>Lafora disease</b> (EDTA blood only) ..... 14-21 Basset Hound, Beagle, Chihuahua, Dachshund, French Bulldog, Newfoundland, Welsh Corgi</p> <p>8270 <b>Lagotto storage disease</b> (LSD) ..... 3-5 Lagotto Romagnolo</p> <p>8361 <b>Laryngeal paralysis</b> (LP) ..... 7-14 Bull Terrier, Miniature Bull Terrier</p> <p>8685 <b>Laryngeal paralysis with polyneuropathy type 3</b> (LPPN3) ..... 3-5 Labrador Retriever, Leonberger, Saint Bernard</p> <p>8493 <b>Late onset ataxia</b> (LOA) ..... 3-5 Jack Russell Terrier, Parson Russell Terrier</p> <p>8487 <b>Leonberger polyneuropathy 1</b> (LPN1) ..... 7-14 Leonberger</p> <p>8494 <b>Leonberger polyneuropathy 2</b> (LPN2) ..... 7-14 Leonberger</p>

8283	<b>Leukoencephalomyelopathy (LEMP)</b> .....	3-14
	Great Dane, Leonberger, Rottweiler	
8364	<b>Leukoencephalopathy (LEP)</b> .....	7-14
	Schnauzer	
8067	<b>Narcolepsy</b> .....	3-14
	Dachshund, Doberman, Labrador Retriever	
8429	<b>Necrotizing meningoencephalitis (NME/PDE)</b> .....	7-14
	Pug	
8457	<b>Neonatal cortical cerebellar abiotrophy (NCCD)</b> .....	7-14
	Beagle, Magyar Vizsla	
8155	<b>Neonatal encephalopathy with seizures (NEWS)</b> .....	3-14
	Standard Poodle	
8308	<b>Neuroaxonal dystrophy (NAD)</b> .....	3-14
	Lagotto Romagnolo, Papillon, Rottweiler, Spanish Waterdog	
8396	<b>Neuronal ceroid lipofuscinosis* (NCL)</b> .....	7-14
	American Staffordshire Terrier	
8075	<b>Neuronal ceroid lipofuscinosis (NCL)</b> .....	3-14
	American Bulldog, Border Collie, Chihuahua, Chinese Crested Dog, Dachshund, English Setter, Golden Retriever, Gordon Setter, Italian Cane Corso, Saluki, Tibetan Terrier	
8133	<b>Neuronal ceroid lipofuscinosis (NCL)</b> .....	3-14
	Australian Cattle Dog, Australian Shepherd, Miniature American Shepherd	
8630	<b>Paroxysmal dyskinesia (PxD)</b> .....	7-14
	Irish Soft-Coated Wheaten Terrier	
8690	<b>Paroxysmal exercise-induced dyskinesia (PED)</b> .....	7-14
	Shetland Sheepdog	
8104	<b>Pyruvate dehydrogenase phosphatase 1 deficiency (PDP1)</b> .....	7-14
	Clumber Spaniel, Sussex Spaniel	
8596	<b>Sensory neuropathy (SN)</b> .....	7-14
	Border Collie	
8537	<b>Spinocerebellar ataxia (SCA)</b> .....	3-14
	Alpine Dachsbracke, Fox Terrier, Jack Russell Terrier, Parson Russell Terrier, Tenterfiel Terrier	
8768	<b>NEW! Spongiforme leukoencephalomyelopathy* (SLEM)</b> .....	28-42
	Border Terrier	
8610	<b>Spongy degeneration with cerebellar ataxia type 1 (SDCA1)</b> .....	3-5
	Belgian Shepherd, Dutch Shepherd	
8582	<b>Spongy degeneration with cerebellar ataxia type 2 (SDCA2)</b> .....	7-14
	Belgian Shepherd, Dutch Shepherd	
8191	<b>Startle disease Patent/License LABOKLIN</b> .....	7-14
	Galgo Espagnol, Irish Wolfhound	
8673	<b>Subacute necrotising encephalopathy (SNE)</b> .....	7-14
	Yorkshire Terrier	

8615	<b>Succinic semialdehyde dehydrogenase deficiency (SSADHD)</b> .....	7-14
	Saluki	
<b>Neuromuscular</b>		
8788	<b>NEW! Cerebellar degeneration and myositis complex (CDMC)</b> .....	7-14
	Nova Scotia Duck Tolling Retriever	
8485	<b>Degenerative myelopathy exon 1 (DM exon1)</b> .....	3-5
	Bernese Mountain Dog	
8158	<b>Degenerative myelopathy exon 2 (DM exon2) Patent/License LABOKLIN</b> .....	3-5
	all breeds	
8443	<b>Hypomyelination/Shaking puppy syndrome (SPS)</b> .....	3-14
	English Springer Spaniel, Weimaraner	
<b>Ophthalmic</b>		
8166	<b>Achromatopsia (day blindness) (ACHM)</b> .....	7-14
	German Shepherd, Labrador Retriever	
8207	<b>Bardet-Biedl syndrome (BBS)</b> .....	7-14
	Puli	
8330	<b>Canine multi-focal retinopathy (CMR1/2/3)</b> .....	3-14
	American Bulldog, Australian Shepherd, Boerboel, Bullmastiff, Coton de Tulear, Dogo Canario, Dogue de Bordeaux, English Bulldog, Finnish Laponian Dog, French Bulldog, Italian Cane Corso, Laponian Herder, Mastiff, Miniature American Shepherd, Pyrenean Mountain Dog, Swedish Lapphund	
8304	<b>Collie eye anomaly* (CEA)</b> .....	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	<b>NEW! Cone degeneration (CD)</b> .....	7-14
	German Short-haired Pointing Dog	
8011	<b>Congenital stationary night blindness (CSNB)</b> .....	3-14
	Briard	
8635	<b>Glaucoma and goniodysgenesis (GG)</b> .....	3-5
	Border Collie	
8157	<b>UPDATE! Hereditary cataract (HSF4)</b> .....	7-14
	Australian Shepherd, Miniature American Shepherd, Wire-Haired Pointing Griffon Korthals, Wäller	
8576	<b>Hereditary cataract* (HSF4)</b> .....	7-14
	Boston Terrier, French Bulldog, Staffordshire Bull Terrier	
8736	<b>NEW! Macular corneal dystrophy (MCD)</b> .....	7-14
	Labrador Retriever	
8508	<b>Microphthalmia (RBP4)</b> .....	3-5
	Irish Soft Coated Wheaten Terrier	



<b>8226 Primary lens luxation (PLL)</b> .....	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	
<b>8452 Primary open angle glaucoma (POAG)</b> .....	7-14
Basset Fauve de Bretagne, Basset Hound, Beagle, Norwegian Elkhound, Petit Basset Griffon Vendéen	
<b>8641 Primary open angle glaucoma and lens luxation (POAG/PLL)</b> .....	3-5
Shar Pei	
<b>Progressive Retinal Atrophy</b>	
<b>8574 Bas-PRA1 (Basenji)</b> .....	3-5
<b>8773 NEW! BBS2-PRA</b> .....	7-14
Shetland Sheepdog	
<b>8375 CNGA1-PRA (Shetland Sheepdog)</b> .....	3-14
<b>8128 cord1/crd4-PRA</b> .....	7-14
Beagle, Bolonka Zwetna, Clumber Spaniel, Curly Coated Retriever, Dachshund (Dackel), English Springer Spaniel	
<b>8135 crd-PRA (Dachshund)</b> .....	7-14
<b>8332 crd1-PRA</b> .....	7-14
American Staffordshire Terrier	
<b>8333 crd2-PRA</b> .....	7-14
American Pitbull Terrier	
<b>8691 crd3-PRA</b> .....	7-14
Irish Glen of Imaal Terrier	
<b>8355 dominant PRA</b> .....	7-14
Bull Mastiff, Mastiff	
<b>8617 eo-PRA</b> .....	7-14
Portuguese Water Dog, Spanish Water Dog	
<b>8451 g-PRA (Schapendoes)</b> .....	7-14
<b>8200 GR-PRA1 (Golden Retriever)</b> .....	3-5
<b>8520 GR-PRA2 (Golden Retriever)</b> .....	3-5
<b>8746 IFT122-PRA (Lapponian Herder)</b> .....	3-14
<b>8752 NEW! JPH2-PRA</b> .....	7-14
Shih Tzu	
<b>8374 NECAP1-PRA (Giant Schnauzer)</b> .....	7-14
<b>8573 pap-PRA1 (Papillon, Phalène)</b> .....	3-5

<b>8767 NEW! PRA3</b> .....	7-14
Tibetan Spaniel, Tibetan Terrier	
<b>8692 PRA4 (Lhasa Apso)</b> .....	7-14
<b>8127 prcd-PRA*</b> .....	7-14
American Cocker Spaniel, American Eskimo Dog, Australian Cattle Dog, Australian Shepherd, Australian Stumpy Tail Cattle Dog, Barbet, Bearded Collie, Bolognese, Bolonka Zwetna, Chesapeake Bay Retriever, Chihuahua, Chinese Crested Dog, English Cocker Spaniel, English Shepherd, Entlebucher Mountain Dog, Finnish Lapponian Dog, German Spitz, Giant Schnauzer, Golden Retriever, Jack Russell Terrier, Karelian Bear Dog, Kuvasz, Labrador Retriever, Lagotto Romagnolo, Lapponian Herder, Markiesje, Miniature American Shepherd, Norwegian Elkhound, Nova Scotia Duck Tolling Retriever, Parson Russell Terrier, Portuguese Water Dog, Poodle, Schipperke, Silky Terrier, Spanish Water Dog, Swedish Lapphund, Wäller, Yorkshire Terrier	
<b>8042 rcd1-PRA</b> .....	3-14
Irish Red and White Setter, Irish Red Setter	
<b>8353 rcd1a-PRA (Sloughi)</b> .....	7-14
<b>8309 rcd2-PRA (Collie (Rough/Smooth))</b> .....	7-14
<b>8354 rcd3-PRA</b> .....	7-14
Chinese Crested Dog, Pomeranian, Welsh Corgi Cardigan	
<b>8435 rcd4-PRA</b> .....	7-14
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	
<b>8546 Type B1 PRA, HIVEP3</b> .....	3-5
Miniature Schnauzer	
<b>8608 XL-PRA (Husky, Samoyed)</b> .....	7-14
<b>8392 Retinal dysplasia* (OSD)</b> .....	7-14
Labrador Retriever	
<b>8677 Retinal dysplasia (OSD)</b> .....	7-14
Northern Inuit, Tamaskan	
<b>8387 Stargardt disease (STGD, retinal degeneration)</b> .....	3-5
Labrador Retriever	

**Respiratory**

- 8595 **Acute respiratory distress syndrome (ARDS)** ..... 7-14  
Dalmatian
- 8373 **Inflammatory pulmonary disease (IPD)** ..... 3-5  
Collie (Rough/Smooth)
- 8483 **Primary ciliary dyskinesia (PCD)** ..... 3-14  
Alaskan Malamute, Old English Sheepdog
- 8598 **Lethal lung disease (LAMP3)** ..... 7-14  
Airedale Terrier
- 8391 **Upper airway syndrome (UAS)** ..... 7-14  
Norwich Terrier

**Skeletal**

- 8219 **Brachyuria** (stumpy tail) ..... 3-5  
Australian Shepherd, Australian Stumpy Tail Cattle Dog, Austrian Pinscher, Bourbonnais Pointer, Bouvier des Ardennes, Brazilian Terrier, Brittany Spaniel, Croatian Sheepdog, Danish/Swedish Farmdog, Jack Russell Terrier, Karelian Bear Dog, Miniature American Shepherd, Mudi, Polish Lowland Sheepdog, Pyrenean Shepherd, Savoy Sheepdog, Schipperke, Spanish Waterdog, Swedish Vallhund, Welsh Corgi
- 8316 **Chondrodysplasia** (dwarfism) ..... 7-14  
Chinook, Karelian Bear Dog, Norwegian Elkhound
- 8294 **Chondrodysplasia (CDPA) and -dystrophia (CDDY)** (IVDD risk) ..... 7-14  
all breeds
- 8326 **Cleft lip/palate and syndactyly (CLPS)** ..... 3-14  
Nova Scotia Duck Tolling Retriever
- 8348 **Craniomandibular osteopathy (CMO)** ..... 3-5  
Cairn Terrier, Scottish Terrier, West Highland White Terrier
- 8472 **Digital hyperkeratosis (DH/HFH)** ..... 3-5  
Dogue de Bordeaux, Irish Terrier, Kromfohrlander
- 8753 **NEW! Disproportionate dwarfism** ..... 7-14  
Dogo Argentino
- 8389 **Hypophosphatasia (HPP)** ..... 7-14  
Karelian Bear Dog
- 8306 **Mucopolysaccharidosis type IIIa (MPS3a)** ..... 7-14  
Dachshund, Newzealand Huntaway
- 8299 **Mucopolysaccharidosis type IIIb (MPS3b)** ..... 7-14  
Schipperke
- 8693 **Mucopolysaccharidosis type VI (MPS6)** ..... 7-14  
Miniature Pinscher
- 8069 **Mucopolysaccharidosis type VII (MPS7)** ..... 3-14  
Brazilian Terrier, German Shepherd

- 8411 **Musladin-Lueke syndrome (MLS)** ..... 3-5  
Beagle
- 8215 **Osteogenesis imperfecta** (brittle bone disease) ..... 3-14  
Beagle, Dachshund, Golden Retriever
- 8394 **Raine syndrome** (Border Collie) ..... 3-5
- 8747 **NEW! 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)** ..... 7-14  
Fox Terrier, French Bulldog, Rat Terrier, Spanish Waterdog, Tenterfield Terrier, Toy Fox Terrier
- 8781 **NEW! Congenital idiopathic megaesophagus (CIM)** ..... 7-14  
German Shepherd
- 8735 **NEW! Copper storage toxicosis (CT)** ..... 7-14  
Bedlington Terrier
- 8388 **Copper storage disease - copper toxicosis (CT)\*** ..... 7-14  
Dobermann, Labrador Retriever
- 8323 **Gallbladder mucoceles (GBM)** ..... 7-14  
American Cocker Spaniel, Cairn Terrier, English Cocker Spaniel, Pomeranian, Shetland Sheepdog
- 8322 **UPDATE! Glycogen storage disease (GSD Ia)** ..... 7-14  
Maltese, German Pinscher
- 8513 **Glycogen storage disease (GSD II)** (Pompe disease) ..... 7-14  
Finnish Laponian Dog, Laponian Herder, Swedish Lapphund
- 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 **Imerlund-Gräsbeck syndrome (IGS)** ..... 3-14  
Beagle, Border Collie, Komondor
- 8602 **Obesity (ADI)** ..... 7-14  
Flat Coated Retriever, Labrador Retriever

- 8142 UPDATE! Pituitary dwarfism**..... 7-14  
Czechoslovakian Wolfdog, German Shepherd, Karelian Bear Dog,  
Lapponian Herder, Saarloos Wolfhond, Tibetan Terrier, White Swiss Shepherd Dog
- 8642 Shar Pei autoinflammatory disease (SPAID)**..... 3-5  
Shar Pei
- Urologic**
- 8013 Cystinuria**..... 3-14  
Australain 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 Tulear
- 8779 NEW! 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)**

- 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** (alleles: Ay, Aw, at, a) ..... 7-14  
all breeds
- 8023 B-locus** (brown, chocolate, liver(nose)) ..... 3-5  
all breeds
- 8639 UPDATE! 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) ..... 3-5  
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 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, Samoyed, Shar Pei
- 8526 Cocoa** (dark brown, dark chocolate) ..... 3-5  
French Bulldog
- 8196 Curly** (curled hair) (all breeds) ..... 3-5
- 8136 D-locus d1** (dilution) (all breeds) ..... 3-5
- 8636 Rare D-locus variants** (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
- 8146 EM-locus** (melanistic mask) ..... 3-5  
all breeds
- 8126 Rare E-locus variants e2** (allele: e2) ..... 7-14  
Australian Cattle Dog
- 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

Turnaround time

Turnaround time

- 8195 **Furnishing** (wire hair) (all breeds)..... 7-14
- 8254 **H-locus** (harlequin) (Great Dane) ..... 3-5
- 8599 **Hairlessness** (powderpuff) ..... 7-14  
Chinese Crested Dog, Mexican Hairless Dog, Peruvian Hairless Dog,  
Scottish Deerhound
- 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
- 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 **NEW! Ticking** ..... 7-14  
all breeds

**DNA Profiling**

(sample material: 0.5 - 1 ml EDTA blood)

- 8109 **Parentage Analysis** (paternity test) ..... each parent..... 14-21  
..... each offspring..... 14-21
- 8107 **Classic STR DNA profile** (ISAG 2006)..... 7-14
- 8540 **Premium SNP DNA profile** (ISAG 2020)..... 28-42
- 8212 **Likelihood ratio calculation**..... 14-21  
breeds from database
- 8211 **Breed determination** (database analysis)..... 14-21  
breeds upon request
- 8201 **Species differentiation**..... 14-21

**Test Combinations Dog**

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

- 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 in combi-price)
- 8759 **NEW! Dilated cardiomyopathy (DCM1+2)**..... 7-14  
Dobermann
- 8658 **Combination Australian Cattle Dog**..... 7-14  
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 in combi-price)
- 8624 **UPDATE! 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 in combi-price)
- 8783 **NEW! Combination Barbet** ..... 7-14  
Progressive retinal atrophy (prcd-PRA)\*, von Willebrand disease type I (vWD1),  
D-locus d1 (dilution), K-locus
- 8620 **Combination Beagle** ..... 7-14  
Acatlasemia, 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 **UPDATE! Combination Belgian/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 in combi-price)
- 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)
- 8474 **Combination Bull Terrier**..... 7-14  
Laryngeal paralysis (LP), Lethal acrodermatitis (LAD),  
Primary lens luxation (PLL), Polycystic kidney disease (PKD)

- 8785 **NEW! 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 in combi-price)
- 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 in combi-price)
- 8784 **NEW! Combination Chesapeake Bay Retriever** ..... 7-14  
Degenerative myelopathy (DM exon2), Exercise induced collapse (EIC), Progressive retinal atrophy\* (prcd-PRA)
- 8754 **NEW! Combination Chihuahua** ..... 7-14  
Chondrodysplasia (CDPA) and -dystrophy (CDDY) (IVDD risk), Macrothrombocytopenia (MTC), Neuronal ceroid lipofuscinosis (NCL), Progressive retinal atrophy\* (prcd-PRA)
- 8346 **UPDATE! 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 in combi-price)
- 8662 **Combination Cocker Spaniel** ..... 7-14  
Acral mutilation syndrome (AMS), Familial nephropathy\* (FN), Progressive retinal atrophy\* (prcd-PRA)
- 8625 **UPDATE! 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 in combi-price)
- 8676 **UPDATE! 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 in combi-price)
- 8659 **Combination Dachshund** ..... 7-14  
Neuronal ceroid lipofuscinosis (NCL), Osteogenesis imperfecta (brittle bone disease), Progressive retinal atrophy (cord1/crd4-PRA), Progressive retinal atrophy (crd-PRA) (15.00 Euro patent fee included in combi-price)
- 8645 **Combination Dobermann** ..... 7-14  
Degenerative myelopathy (DM exon2), Narkolepsy, von Willebrand disease type 1 (vWD1), B-locus (brown, chocolate, liver(nose), D-locus d1 (dilution) (15.00 Euro patent fee included in combi-price)
- 8660 **Combination English Springer Spaniel** ..... 7-14  
Acral mutilation syndrome (AMS), Familial nephropathy (FN), Fucosidosis, Hypomyelination / Shaking puppy syndrome (SPS), Phosphofructokinase deficiency (PFKD), Progressive retinal atrophy (cord1/crd4-PRA)

- 8285 **Combination French Bulldog** ..... 7-14  
Canine multi-focal retinopathy (CMR1), Chondrodysplasia and -dystrophy (CDPA & CDDY, IVDD risk), Congenital hypothyroidism with goiter (CHG), Cystinuria, Degenerative myelopathy (DM exon2), Hereditary cataract\* (HSF4) (15.00 Euro patent fee included in combi-price)
- 8649 **Combination German Shepherd and Wolfdog** ..... 7-14  
Coat length I (long or short hair), Degenerative myelopathy (DM exon2), Hyperuricosuria (HUU/SLC), MDR1 gene variant (Ivermectin hypersensitivity), Pituitary dwarfism (15.00 Euro patent fee included in combi-price)
- 8782 **NEW! Combination German Short-haired Pointing Dog** ..... 7-14  
Acral mutilation syndrome (AMS), Exfoliative cutaneous lupus erythematosus (ECL), Junctional epidermolysis bullosa (JEB), von Willebrand disease type 2 (vWD2)
- 8725 **NEW! Combination Giant Schnauzer** ..... 7-14  
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 in combi-price)
- 8622 **Combination Golden Retriever** ..... 7-14  
Ichthyosis\*, Muscular dystrophy (MD), Neuronal ceroid lipofuscinosis (NCL), Progressive retinal atrophy (GR-PRA1), Progressive retinal atrophy (GR-PRA2), Progressive retinal atrophy\* (prcd-PRA)



- 8678 UPDATE! Combination Great Swiss Mountain Dog** ..... 7-14  
Hyperuricosuria (HUU/SLC), Degenerative myelopathy (DM exon2), Malignant hyperthermia (MH), Postoperative haemorrhage (P2Y12), d-locus d1 (dilution) (15.00 Euro patent fee included in combi-price)
- 8638 Combination Irish (Red and White) Setter**..... 7-14  
Canine leukocyte adhesion deficiency (CLAD), Globoid cell leukodystrophy (Krabbe disease), Progressive retinal atrophy (rcd1-PRA), Progressive retinal atrophy (rcd4-PRA), von Willebrand disease type 1 (vWD1)
- 8663 Combination Irish Soft-Coated Wheaten Terrier**..... 7-14  
Degenerative myelopathy (DM exon2), Hyperuricosuria (HUU/SLC), Microphthalmia (RBP4), Paroxysmal dyskinesia (PxD), Protein losing nephropathy (PLN) (15.00 Euro patent fee included in combi-price)
- 8755 NEW! Combination Kromfohländer**..... 7-14  
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 in combi-price)
- 8743 NEW! Combination Labradoodle** ..... 7-14  
Centronuclear myopathy (CNM), Degenerative myelopathy (DM exon2), Exercise induced collapse (EIC), Hereditary nasal parakeratosis (HNPK), Neonatal encephalopathy with seizures (NEWS), Skeletal dysplasia 2 (SD2), Progressive retinal atrophy\* (prcd-PRA), Progressive retinal atrophy (rcd4-PRA), von Willebrand disease type I (vWD1) (45.00 Euro patent fee included in combi-price)
- 8627 Combination Labrador 1 (basis 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 (SD2) (dwarfism) (45.00 Euro patent fee included in combi-price)
- 8628 Combination Labrador 2 (extended combination)**..... 7-14  
Alexander disease (AxD), Cystinuria, Hyperuricosuria (HUU/SLC), Narcolepsy, Obesity, Pyruvate kinase deficiency (PK), Stargardt disease (retinal degeneration), X-linked myopathy (XL-MTM)
- 8499 UPDATE! Combination Lagotto Romagnolo**..... 7-14  
Hyperuricosuria (HUU/SLC), Juvenile epilepsy (JE), Lagotto storage disease (LSD), Neuroaxonal dystrophy (NAD), Progressive retinal atrophy\* (prcd-PRA), Furnishing (wire hair)
- 8646 Combination Landseer** ..... 3-5  
Cystinuria, Degenerative myelopathy (DM exon2), Muscular dystrophia (MD), Thrombopathia, D-locus d1 (dilution) (15.00 Euro patent fee included in combi-price)
- 8286 Combination Leonberger** ..... 7-14  
Laryngeal paralysis with polyneuropathy type 3 (LPPN3), Leonberger polyneuropathy 1 (LPN1), Leonberger polyneuropathy 2 (LPN2), Leukoencephalomyelopathy (LEMP)
- 8619 Combination Miniature Schnauzer** ..... 7-14  
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)

- 8633 Combination Old English Sheepdog** ..... 7-14  
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 in combi-price)
- 8621 Combination Poodle** ..... 7-14  
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 in combi-price)
- 8623 Combination Pug Dog** ..... 7-14  
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 in combi-price)
- 8514 UPDATE! Combination Portuguese Water Dog**..... 7-14  
Gangliosidosis (GM1), Improper coat, Progressive retinal atrophy (eo-PRA), Progressive retinal atrophy\* (prcd-PRA)
- 8647 Combination Rhodesian Ridgeback**..... 7-14  
Degenerative myelopathy (DM exon2), Haemophilia A (factor VIII deficiency), Haemophilia B (factor IX deficiency), Juvenile myoclonic epilepsy (JME), B-locus (liver/nose), D-locus d1 (dilution) (15.00 Euro patent fee included in combi-price)
- 8648 Combination Rottweiler**..... 7-14  
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 in combi-price)
- 8570 Combination Russell Terrier 1**..... 3-14  
Juvenile brain disease (JBD), Late onset ataxia (LOA), Spinocerebellar ataxia (SCA)
- 8571 Combination Russell Terrier 2**..... 3-14  
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 in combi-price)
- 8756 NEW! Combination Russian Black Terrier** ..... 3-5  
Degenerative myelopathy (DM exon2), Hyperuricosuria (HUU/SLC), Juvenile laryngeal paralysis & polyneuropathy (JLPP) (15.00 Euro patent fee included in combi-price)
- 8652 Combination Shetland Sheepdog**..... 7-14  
Collie eye anomaly\* (CEA), Degenerative myelopathy (DM exon2), MDR1 gene variant (Ivermectin hypersensitivity), Progressive retinal atrophy (CNGA1-PRA), von Willebrand disease type 3 (vWD3) (15.00 Euro patent fee included in combi-price)
- 8681 Combination Shiba Inu** ..... 7-14  
GM1-Gangliosidosis (GM1), GM2-Gangliosidosis (GM2), A-locus, E-locus
- 8287 Combination Spanish Waterdog**..... 7-14  
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 in combi-price)

- 8679 **UPDATE! Combination Tibetan Terrier** ..... 7-14  
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 in combi-price)
- 8661 **Combination Welsh Corgi** ..... 7-14  
Brachyuria (stumpy tail), Chondrodysplasia and -dystrophy (CDPA and CDDY, IVDD risk), Degenerative myelopathy (DM exon2), Progressive retinal atrophy (rcd3-PRA), von Willebrand disease type 1 (vWD1) (15.00 Euro patent fee included in combi-price)
- 8757 **NEW! Combination Yorkshire Terrier**..... 7-14  
Chondrodysplasia (CDPA) and -dystrophy (CDDY) (IVDD risk), L-2-hydroxyglutaric aciduria (L2HGA), Primary lens luxation (PLL), Progressive retinal atrophy\* (prcd-PRA), Subacute necrotising encephalopathy (SNE)
- 8654 **Combination coat colours dog** ..... 7-14  
A-locus, B-locus, D-locus (d1), E-locus (e1), I-locus, K-locus, S-locus

**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 incl. shipment tracking; plus shipping costs (SC) (SCs vary depending on the destination country up to EUR 25)



## Genetics - Cat

### Hereditary Diseases

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

- 8763 **NEW! Acrodermatitis enteropathica** (AE) ..... 7-14  
Turkish Van
- 8239 **Alpha-Mannosidosis** (AMD) ..... 7-14  
Persian
- 8609 **Autoimmune lymphoproliferative syndrome** (ALPS)..... 7-14  
British Shorthair
- 8592 **Congenital myasthenic syndrome** (CMS) ..... 7-14  
Devon Rex, Sphynx
- 8604 **Cystinuria** (all breeds) ..... 7-14
- 8729 **Factor XI deficiency** (Maine Coon) ..... 3-5
- 8041 **Gangliosidosis** (GM 1/GM 2) ..... 7-14  
Balinese, Javanese, Korat, Oriental Shorthair, Peterbald, Seychellois, Siamese, Thai, Tonkinese
- 8149 **Gangliosidosis** (GM2) (Burmese) ..... 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) ..... 3-5  
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 **NEW! MDR1 gene variant** ..... 7-14  
all breeds
- 8468 **Mucopolysaccharidosis type VI** (MPS6) ..... 7-14  
Balinese, Birman, Domestic Shorthair, Javanese, Oriental Shorthair, Peterbald, 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

<b>8046 Polycystic kidney disease (PKD)</b> .....	3-5
Angora, Birman, British Short- and Longhair, Chartreux, Colourpoint, Exotic Shorthair, Persian, Ragdoll, Russian Blue, Scottish Fold, Selkirk Rex	
<b>8395 Primary congenital glaucoma (PCG)</b> .....	7-14
Siamese	
<b>8331 Progressive retinal atrophy (b-PRA)</b> .....	3-14
Bengal	
<b>8593 Progressive retinal atrophy (pd-PRA)</b> .....	3-14
Angora, Birman, British Short- and Longhair, Chartreux, Colourpoint, Exotic Shorthair, Persian, Ragdoll, Russian Blue, Scottish Fold, Selkirk Rex	
<b>8117 Progressive retinal atrophy (rdAc-PRA)</b> .....	3-5
Abyssinian, American Curl/Wirehair, Balinese, Bengal, Colourpoint Shorthair, Cornish Rex, Javanese, Munchkin, Ocicat, Oriental Shorthair, Peterbald, Seychellois, Siamese, Singapura, Somali, Thai, Tonkinese	
<b>8469 Progressive retinal atrophy (rdy-PRA)</b> .....	7-14
Abyssinian, Ocicat, Somali	
<b>8047 Pyruvate kinase deficiency (PK)</b> .....	3-14
Abyssinian, Angora, Bengal, Domestic Shorthair, Egyptian Mau, La Perm, Maine Coon, Norwegian Forest Cat, Ocicat, Savannah, Siberian, Singapura, Somali	
<b>8123 Spinal muscular atrophy (SMA)</b> .....	7-14
Maine Coon	

**Test Combinations Cat**

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

<b>8350 Combination hereditary diseases cat</b> .....	7-14
HCM1, HCM3, GSD4, PK, PKD, rdAc-PRA, SMA, genetic blood group	
<b>8280 Combination coat colours cat</b> .....	3-14
agouti, burma, mink, chocolate, cinnamon, dilution, siam	

**Breed Specific Combinations**

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

<b>8717 Combination Bengal</b> .....	3-14
Progressive retinal atrophy (b-PRA), Progressive retinal atrophy (rdAc-PRA), Pyruvate kinase deficiency (PK)	
<b>8281 Combination coat colours Bengal</b> .....	7-14
charcoal, chocolate, cinnamon, dilution, snow	
<b>8716 Combination Birman</b> .....	7-14
Hypotrichosis and short life expectancy, Mucopolysaccharidosis type 6 (MPS6), Polycystic kidney disease (PKD), Progressive retinal atrophy (pd-PRA)	
<b>8714 Combination British Short-/Longhair</b> .....	7-14
Autoimmune lymphoproliferative syndrome (ALPS), Polycystic kidney disease (PKD), Progressive retinal atrophy (pd-PRA)	

<b>8715 Combination Burmese</b> .....	7-14
Gangliosidosis (GM2), Head defect, Hypokalaemia	
<b>8718 Combination Maine Coon</b> .....	7-14
Factor XI deficiency (F11), Hypertrophic cardiomyopathy (HCM1), Pyruvate kinase deficiency (PK), Spinal muscular atrophy (SMA)	
<b>8720 Combination Norwegian Forest Cat</b> .....	7-14
Amber, Glycogen storage disease type 4 (GSD4), Pyruvate kinase deficiency (PK)	
<b>8713 Combination Persian</b> .....	7-14
Alpha-Mannosidosis (AMD), Polycystic kidney disease (PKD), Progressive retinal atrophy (pd-PRA)	
<b>8719 Combination Ragdoll</b> .....	3-14
Hypertrophic cardiomyopathy (HCM1, HCM3), Polycystic kidney disease (PKD), Progressive retinal atrophy (pd-PRA)	
<b>8722 Combination Siam/Oriental</b> .....	7-14
Gangliosidosis (GM1), Mucopolysaccharidosis type 6 (MPS6), Primary congenital glaucoma (PCG), Progressive retinal atrophy (rdAc-PRA)	
<b>8723 UPDATE! Combination Sphynx</b> .....	7-14
Congenital myasthenic syndrome (CMS), Hypertrophic cardiomyopathy (HCM4), Hypokalaemia	

**Coat Colour / Coat Length / Coat Structure**

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

<b>8170 Coat colour amber</b> .....	3-5	37.21
Norwegian Forest Cat		
<b>8257 Coat colour brown (chocolate/cinnamon)</b> .....	3-5	37.21
all breeds		
<b>8774 NEW! Coat colour copal</b> .....	7-14	37.21
Kurilian Bobtail		
<b>8606 Coat colour russet (Burmese)</b> .....	7-14	37.21
<b>8090 Coat colour variant agouti</b> .....	3-5	37.21
all breeds		
<b>8242 Coat colour variant albino</b> .....	7-14	37.21
all breeds		
<b>8442 Coat colour variant charcoal</b> .....	7-14	37.21
Bengal		
<b>8258 Coat colour variant colourpoint</b> (siam/mink/burma) .....	3-14	37.21
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 <b>NEW!</b> Coat colour variant gold (sunshine) .....	7-14
Kurilian Bobtail, Siberian	
8255 Coat colour variant snow (Bengal).....	7-14
8778 <b>NEW!</b> Coat colour variant tabby (mackerel, blotched) .....	7-14
all breeds	
8777 <b>NEW!</b> Coat colour variant ticked .....	7-14
all breeds	
8147 Coat length (long or short hair) .....	7-14
all breeds	
8243 Coat variant Sphynx/Devon Rex (SPH/DRX) .....	7-14
Canadian Sphynx, Devon Rex	
8629 Coat variant curly (Selkirk Rex) .....	7-14

**Blood Group**

**NEW!** Test optimisation using an extended, patented set of markers

8121 Genetic blood group determination 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 / Parentage**

(sample material: 0.5 - 1 ml EDTA blood)

8109 Parentage Analysis (paternity test) .....	each parent..... 14-21
.....	each offspring..... 14-21
8175 DNA profile (ISAG) (all breeds) .....	14-21
8611 Breed determination (database analysis) .....	21-28
breeds from database	

**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 EUR 25)	

**Equine / Camelid Specific Tests**

**Profiles / Screenings**

7700 Equine Large Screening .....	S+NaFB/1ml..... 2-3
AP, $\gamma$ -GT, bilirubin, cholesterol, glucose, AST, LDH, GLDH, CK, protein,	
albumin, globulins, urea, crea, Ca, Mg, K, Na, Fe, PO <sub>4</sub> , Cu, Zn, Se, triglycerides	
+ Complete Blood Count .....	+EB/1ml..... ••
7702 Large Screening + SAA.....	S+NaFB/1ml..... 2-3
+ Complete Blood Count .....	+EB/1ml..... ••
1060 Equine Small Screening .....	S/1ml ..... ••
GLDH, $\gamma$ -GT, AST, LDH, CK, urea, crea, protein, triglycerides	
+ Complete Blood Count .....	+EB/1ml..... ••
7500 Performance Profile .....	S+NaFB/1ml ..... 2
AP, $\gamma$ -GT, GLDH, bili, cholesterol, triglycerides, glucose, lactate, AST, LDH,	
CK, protein, albumin, globulins, urea, crea, PO <sub>4</sub> , Ca, Mg, K, Na, Fe	
+ Complete Blood Count .....	+EB/1ml..... ••
1080 <b>UPDATE!</b> Senior Profile.....	S+NaFB/1ml ..... 2-3
$\gamma$ -GT, GLDH, lipase (DGGR), bilirubin, triglycerides, glucose, protein,	
albumin, globulins, urea, crea, PO <sub>4</sub> , Ca, Zn, Se, SDMA	
+ Complete Blood Count .....	+EB/1ml..... ••
2528 Foal Profile.....	S/1ml ..... 2
triglycerides, urea, crea, protein, serum protein electrophoresis, $\gamma$ -GT, Na, Ca, Mg, PO <sub>4</sub>	
+ Complete Blood Count .....	+EB/1ml..... ••
4010 Mineral Profile II .....	S/3ml ..... 2-4
Ca, Na, PO <sub>4</sub> , Mg, Zn, Cu, Se, K, Cl, Fe, Mn	
7710 Lama/Alpaca Profile .....	S+NaFB/1ml ..... 2-3
AP, $\gamma$ -GT, GLDH, bili, cholesterol, triglycerides, glucose, AST, LDH, CK,	
protein, albumin, globulins, urea, crea, Ca, PO <sub>4</sub> , Na, Mg, K, Fe, Cu, Zn, Se	
+ Complete Blood Count .....	+EB/1ml..... ••
2532 PPID Profile (Equine Cushing) ! .....	EP!+SI+NaFB/2ml ..... 2
insulin, ACTH, glucose, fructosamine, triglycerides, $\gamma$ -GT, RISQI, MIRG, I/G-ratio	
+ Complete Blood Count .....	+EB/1ml..... ••
2531 EMS Profile (Equine Metabolic Syndrome) ! .....	SI+NaFB/2ml ..... 2
insulin, glucose, fructosamine, RISQI, MIRG, I/G-ratio	
+ Complete Blood Count .....	+EB/1ml..... ••

Sample Turnaround time

- 560 **Neurology Small** (horse, donkey) ..... S/1ml ..... 3-4  
West Nile virus IgG & IgM, TBE virus IgG & IgM
- 561 **Neurology Large** (horse, donkey) ..... S/1ml+EB,LQ/0.5ml,A ..... 3-4  
SAA, Ab: West Nile virus IgG & IgM, TBE virus IgG & IgM, PCR: Bornavirus, EHV1 & 4
- 252 **Iodine/Creatinine-Ratio** ..... H/1ml ..... Tue/Fri

**Immunology / Inflammation**

- 179 **ANA Test** ..... S,EP,HP/0.5ml ..... 2
- 180 **Coombs Test, direct** ..... EB/0.5ml ..... 2
- 1210 **Immune Status** (horse) ..... EB,HB/3ml ..... 2  
complete blood count, T-cells, B-cells, CD4+, CD8+, ratio CD4/CD8; max 48h old samples
- 748 **IgG** (foal) ..... S/0.5ml ..... 2
- 1041 **Serum Amyloid A (SAA)** ..... S/0.5ml ..... 2

**Tumour markers**

- 1038 **Thymidine Kinase !** ..... S/0.5ml ..... Tue/Fri
- 1800 **Tumour Diagnostics Small !** ..... S/1ml ..... Tue/Fri  
thymidine kinase, SAA, haptoglobin
- 612 **Alpha-Fetoprotein (AFP)** ..... S/1ml ..... 2

**Liver**

- 1001 **Initial Screening** ..... S/0.5ml ..... ••  
AST, GLDH,  $\gamma$ -GT
- 1002 **Liver Screening** ..... S/1ml ..... 2  
AST, GLDH, AP,  $\gamma$ -GT, bilirubin (total+I), protein, albumin, globulins, bile acids

for more tests, see dog/cat page 8

**Kidney / Urine**

- 2278 **Fractionated Electrolyte Excretion** ..... H+S/0.5ml ..... 2-3

for more tests, see dog / cat page 8

**Haematology**

- 35 **Complete Blood Count** (incl. diff.) ..... EB,HB/1ml (+BS) ..... ••
- 317 **Blood Group Ca** (horse) ..... EB/1ml ..... 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, creatinine, Na, K, Ca, PO<sub>4</sub>, bilirubin, ALT, AP, AST, GLDH, protein, albumin, glucose, equine infectious anaemia v. (Coggins test), equine viral arteritis v. (VNT), babesia (c-ELISA), urinalysis

for more tests, see dog / cat page 6

Sample Turnaround time

- Muscular Disease** ..... **Coagulation**  
see dog / cat page 9 and ..... see dog / cat page 6  
equine hereditary diseases page 38

**Vitamins**

see dog / cat page 13

**Single Determinations - Clinical Chemistry**

- 128 **Bile Acids** ..... S/0.5ml ..... 2  
for more tests, see dog/cat page 12

**Thyroid / Parathyroid**

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

**Pregnancy**

- 124 **PMSG** (horse, donkey) ..... S/0.5ml ..... 4-11  
from day 45 to 100 (turnaround time: horse: Tue/Fri; donkey\*: 8-11 days)
- 122 **Oestrone Sulphate** (horse, donkey) ..... S/1ml ..... 6  
110th day to 1 week prior to birth

**Sex Hormones**

- 2212 **Anti-Müllerian Hormone (AMH) !** ..... S/0.5ml ..... 2
- 134 **Oestradiol** ..... S/0.5ml ..... Tue/Fri
- 135 **Progesterone** ..... S/0.5ml ..... ••
- 136 **Testosterone** ..... S/0.5ml ..... 3-4
- 1360 **HCG Stimulation Test** ..... S/2x0.5ml ..... 3-4  
2 x testosterone

**Adrenal Cortex**

- 18 **Cortisol** ..... S/0.5ml ..... ••
- 141 **ACTH Stimulation Test** ..... S/2x0.5ml ..... ••  
2 x cortisol
- 142 **Dexamethasone Suppression Test** ..... S/2x0.5ml ..... ••  
low dose
- Dexamethasone Suppression Test** ..... S/3x0.5ml ..... ••  
low dose
- 121 **ACTH !** ..... EP/0.5ml ..... 2
- 1186 **TRH Stimulation Test with ACTH !** ..... EP/2x0.5ml ..... 2  
2 x ACTH

	Sample	Turnaround time
2532 <b>PPID Profile</b> (Equine Cushing) ! .....	EP!+S!+NaFB/2ml .....	2
insulin, ACTH, glucose, fructosamine, triglycerides, $\gamma$ -GT, RISQI, MIRG, I/G-ratio		
<b>+ Complete Blood Count</b> .....	+EB/1ml.....	••
<b>Pancreas - Endocrine (fasted)</b>		
609 <b>Insulin !</b> .....	S/1ml .....	2
1185 <b>Oral Glucose Test</b> (with insulin determination) !. S/1ml .....		2
2531 <b>EMS Profile</b> (Equine Metabolic Syndrome) ! .....	SI+NaFB/2ml .....	2
insulin, glucose, fructosamine, RISQI, MIRG, I/G-ratio		
<b>+ Complete Blood Count</b> .....	+EB/1ml.....	••
<b>Serology (Antibodies)</b>		
1572 <b>Anaplasma phagocytophilum</b> .....	EP,HP,S/0.5ml .....	2
249 <b>Anoplocephala</b> .....	S/0.5ml .....	6
<b>Babesia</b>		
576 <b>IFAT</b> (for export only).....	EP,HP,S/0.5ml .....	2
Th. equi/B. caballii		
2576 <b>c-ELISA</b> (Th. equi/B. caballii).....	EP,HP,S/0.5ml .....	3-4
1576 <b>CFT*</b> (Th. equi/B. caballii) .....	EP,HP,S/0.5ml .....	6
176 <b>Borrelia</b> (IgG+IgM).....	EP,HP,S/0.5ml .....	2
833 <b>Borrelia</b> (blot).....	HP,S/0.5ml.....	4
5010 <b>Bornavirus*</b> .....	S/0.5ml .....	8
2060 <b>Dourine*</b> .....	S/1ml .....	6
Trypanosoma equiperdum		
3131 <b>Equine Arteritis Virus/EVA</b> (VNT) .....	S/0.5ml .....	6
348 <b>Equine Herpesvirus 1/4</b> (EHV 1/4) .....	S,HP/0,5ml .....	3-4
2546 <b>Equine Infectious Anaemia V.</b> (cELISA).....	S/2ml .....	2
3130 <b>Equine Infectious Anaemia V.</b> (Coggins test)..	S/0.5ml .....	4
2061 <b>Glanders*</b> (Burkholderia mallei) .....	S/1ml .....	6
5000 <b>Influenza A Virus*</b> .....	S/0.5ml .....	6
157 <b>Leptospira</b> (MAT).....	EP,HP,S/0.5ml .....	2
564 <b>Listeria</b> (Type 1 + 4b).....	EP,HP,S/0.5ml .....	2
320 <b>Salmonella Abortusequi*</b> .....	S/1ml .....	6
1295 <b>UPDATE! Streptococcus equi</b> (quantitative) ...	S/1ml .....	4-6
2544 <b>Tetanus</b> (vaccination titre) .....	S/2ml .....	2
555 <b>Tick-borne Encephalitis V.</b> (TBE) (IgG).....	S/0.5ml .....	Tue/Fri

	Sample	Turnaround time
556 <b>Tick-borne Encephalitis V.</b> (TBE) (IgM).....	S/0.5ml .....	Tue/Fri
557 <b>Tick-borne Encephalitis V.</b> (TBE) (IgG, CSF) ...	LQ/0.2ml.....	Tue/Fri
2091 <b>West Nile Virus</b> (IgG & IgM) (horse) .....	S/1ml .....	3-4
1252 <b>Camelid Abortion Profile</b> .....	S/2ml .....	2-4
leptospira, chlamydia, Toxoplasma gondii		

**PCR Assays**

8182 <b>Anaplasma phagocytophilum</b> .....	EB,Z.....	2-4
8019 <b>UPDATE! Babesia</b> (Piroplasmida).....	EB,Z.....	2-4
also determines cytauxzoon, theileria; incl. species diff.		
8343 <b>Bornavirus</b> .....	LQ,KW,EB.....	2-4
8010 <b>Borrelia</b> .....	HT,LQ,SV,Z .....	2-4
8238 <b>BPV-1/2</b> (equine sarcoid).....	HA,HT,K .....	2-4
8489 <b>Dermatophytes</b> .....	HA,HT,K .....	3-5
8230 <b>Equine Arteritis Virus</b> (EVA) .....	A,Sp,EB .....	2-4
8341 <b>Equine Coronavirus</b> (ECoV).....	FA .....	2-4
8356 <b>Herpesvirus 1</b> (EHV-1).....	A,LQ,AM,EB .....	2-4
incl. differentiation of neuropathogenic variant		
8357 <b>Herpesvirus 2</b> (EHV-2).....	A .....	2-4
8352 <b>Herpesvirus 3</b> (EHV-3).....	A,GW .....	2-4
8358 <b>Herpesvirus 4</b> (EHV-4).....	A,EB.....	2-4
8359 <b>Herpesvirus 5</b> (EHV-5).....	A,EB.....	2-4
8223 <b>Influenza A Virus</b> .....	A .....	2-4
8059 <b>Lawsonia intracellularis</b> .....	FA .....	2-4
8031 <b>Leptospira</b> .....	H+EB,AM,KW .....	2-4
8176 <b>Mycoplasma haemolamae</b> .....	EB.....	2-4
lama, alpaca		
8699 <b>Parvovirus</b> .....	EB.....	2-4
8102 <b>Rhodococcus hoagii</b> (formerly R. equi).....	A,FA .....	2-4
incl. vapA		
8060 <b>Salmonella</b> .....	FA .....	2-4
8556 <b>Streptococcus equi equi</b> (strangles).....	A,Ln .....	2-4
8171 <b>Streptococcus equi equi/zooepidemicus</b> ...	A,Ln .....	2-4
8021 <b>Tick-borne Encephalitis Virus</b> (TBE) .....	LQ,S,Z .....	2-4
8296 <b>West Nile Virus</b> .....	EB,LQ .....	2-4

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

Sample Turnaround time

Sample Turnaround time

**PCR Profiles**

<b>8415 Abortion</b> (horse)..... AM,A.....	2-4
EHV-1, EHV-4, EVA, leptospira	
<b>8431 Abortion</b> (camelids)..... AM,A.....	2-4
leptospira, Toxoplasma gondii, chlamydia	
<b>8339 Anaemia Small</b> ..... EB.....	2-4
Anaplasma phagocytophilum, piroplasmida (babesia, theileria; incl. species diff.)	
<b>8209 Eye</b> (horse) (EHV-2, EHV-5)..... A.....	2-4
<b>8334 UPDATE! Respiratory I</b> (horse)..... A.....	2-4
EHV-1, EHV-4, influenza A virus, Strept. equi equi/zooepidemicus	
<b>8684 Respiratory II</b> (horse)..... A+FA.....	2-4
EHV-1, EHV-4, influenza A virus, Streptococcus equi equi, equine coronavirus	
<b>8224 Respiratory III</b> (horse)..... A.....	2-4
EHV-1, EHV-4, influenza A virus	
<b>8665 Respiratory IV</b> (horse)..... A,EB.....	2-4
EHV-1, EHV-4	
<b>8225 Respiratory - Foal</b> ..... A.....	2-4
EHV-1, EHV-4, influenza A virus, Rhodococcus hoagii (formerly R. equi) incl. vapA	
<b>8086 Uveitis</b> (horse)..... KW.....	2-4
leptospira Ab, PCR: leptospira, EHV-1	

**Microbiology**

**Swab / Aspirate**

see dog / cat page 15

**Skin / Hair**

<b>2175 Dermatophilus congolensis</b> ..... HA,K.....	2
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for more tests, see dog / cat page 15

**Breeding Hygiene**

<b>184 Reproductive Fitness</b> (per swab)..... TM.....	3-4
<b>194 Reproductive Fitness + Mycology</b> ..... TM.....	3-8
per swab	
<b>158 CEM</b> (culture)..... TM.....	8
per swab (turnaround time: export to Canada: 2 weeks, export to Norway: 3 weeks )	
<b>159 Reproductive Fitness + CEM</b> (culture)..... 2xTM.....	3-8
swab from cervix + swab from clitoris (turnaround time CEM: export to Canada: 2 weeks, export to Norway: 3 weeks )	

<b>8229 Taylorella equigenitalis</b> (CEM)..... TM,Sp.....	2-4
<b>8550 CEM PCR Profile Stallion 1</b> ..... 3xTM.....	2-3
3 locations: penile sheath, urethra, fossa glandis	
<b>8551 CEM PCR Profile Stallion 2</b> ..... 3xTM+Sp.....	2-3
sperm + 3 locations: penile sheath, urethra, fossa glandis	
<b>8554 CEM PCR Profile Mare 1</b> ..... 2xTM.....	2-3
2 locations: fossa clitoridis, sinus clitoridis	
<b>8680 CEM PCR Profile Mare 2</b> ..... 3xTM.....	2-3
3 locations: fossa clitoridis, sinus clitoridis, cervix	

for more tests, see Microbiology page 15



Sample Turnaround time

Sample Turnaround time

**Digestive Disorders and Diarrhoea**

**Microbiology**

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

**Parasitology**

1183 <b>Equine Endoparasite Profile</b> ..... FA .....	2
flotation, SAFC, modified McMaster	
149 <b>Endoparasites</b> ..... FA .....	2
flotation and SAFC	
2632 <b>Modified McMaster</b> ..... FA .....	2
egg count per gram of faeces	
585 <b>Baermann Test</b> (lungworm larvae) ..... FA,BAL.....	3

for more tests, see dog / cat page 15

**Single Determinations - Microbiology**

see dog / cat page 13

**Autovaccines**

see dog / cat page 16

**Virology**

172 <b>Rotavirus</b> (EIA) ..... FA .....	2-3
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for more tests, see dog / cat PCR Assays page 35

**Maldigestion / Malabsorption**

1400 <b>Particle Size</b> ..... FA .....	2
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**Pathology**

260 <b>Endometrial Biopsy</b> (mare).....	3-4
261 <b>Endometrial Biopsy + Reproductive Fitness + Myc.</b> (mare) .....	3-8
293 <b>BAL Profile</b> (horse) .....	3-8
cytology, bacteriology, mycology	

for more tests, see dog / cat page 20

**Drugs / Doping / Toxicology**

2092 <b>Doping Profile*</b> .....	S/20ml	15-22
2093 <b>Antiphlogistics Profile*</b> .....	S/20ml	15-22
2098 <b>Sedatives*</b> .....	S/20ml	11-15

further drug tests on demand

1204 <b>Heavy Metal Toxicity Screening</b> .....	S+EB/2ml+H/5ml.....	8
arsenic, lead, cadmium, chrome, copper, manganese, mercury, thallium, zinc		
97 <b>NEW! Colchicine !</b> .....	H/5ml.....	3-4
frozen		
263 <b>NEW! Hypoglycin A !</b> (horse).....	S/5ml .....	2-4
frozen		

**Allergy - Profiles Horse**

7146 <b>Allergy Profile Skin</b> .....	S/3ml .....	8
seasonal, perinéal, insect, food panel		
7149 <b>Allergy Profile Respiratory</b> .....	S/1ml .....	3
seasonal, perennial panel		
7156 <b>Nordic Allergy Profile Horse</b> .....	S/3ml .....	3-4
insects, pollen from Northern grasses, weeds and trees, mites and molds; incl. CHO test and blocking as needed		

**Allergy - Screening Test Horse**

7105 <b>Allergy Screening Test</b> .....	S/1.5ml .....	3
mites, pollen, moulds, insects		

**Allergy - Main Tests Horse**

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

Sample Turnaround time

Turnaround time

**Allergy - Additional Tests Horse**

6108 **Food Panel**..... S/1ml ..... 8  
IgE and IgG against wheat, barley, oats, corn, molasses, soy, yeast, alfalfa

**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 allergenen** ..... 14-21  
sufficient for 10 months; shipping fee included

6512 **Artuvetrin® 5-8 allergenen**..... 14-21  
sufficient for 10 months; shipping fee included

**Genetics - Horse / Hereditary Diseases**

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

8248 **Androgen insensitivity syndrome (AIS)**..... 7-14  
Quarter horse

8214 **Cerebellar abiotrophy (CA)** ..... 3-5  
Arabian horses

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

8072 **Hereditary junctional epidermolysis bullosa (H-JEB)** ..... 7-14  
Belgian Draft 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

8231 **Lavender foal syndrome (LFS)**..... 3-5  
Arabian horses

8293 **Immune mediated myositis & MYH1 myopathy (MYHM)**..... 7-14  
Appaloosa, Quarter Horse, Paint Horse

8061 **Lethal white foal syndrome (OLWS)** ..... 3-5  
Appaloosa, Paint Horse, Quarter Horse

8594 **Naked foal syndrome (NFS)** ..... 7-14  
Akhal-Teke

8292 **Ocular squamous cell carcinoma (SCC)** ..... 7-14  
Belgian horse, Haflinger

8138 **Polysaccharid storage myopathy type 1 (PSSM 1)**  
Patent/License LABOKLIN ..... 3-5  
all breeds

8039 **Severe combined immunodeficiency (SCID)**..... 7-14  
Arabian horses

8470 **Warmblood fragile foal syndrome (WFFS) Patent/License LABOKLIN** ..... 3-5  
Warmblood breeds, Appaloosa, Haflinger, Mustang, Paint Horse, Quarter Horse

**Genetic Disease Combinations / Hereditary Diseases**

(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 1, EMH

8252 **Combination Arabian Horse** ..... 3-14  
CA, LFS, SCID

8671 **Combination Paint Horse** ..... 3-5  
EMH, GBED, HERDA, HYPP, OLWS, PSSM 1

8372 **Combination Quarab** ..... 3-14  
CA, GBED, HERDA, PSSM 1, SCID

8250 **Combination Quarter Horse / Appaloosa** ..... 3-5  
GBED, HERDA, HYPP, PSSM 1

8253 **Combination Warmblood** ..... 3-5  
WFFS, PSSM 1

**Coat Colour / Coat Structure**

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

8070 <b>Agouti</b> (all breeds) .....	7-14
8140 <b>Appaloosa pattern 1</b> .....	7-14
Appaloosa	
8603 <b>Brindle 1</b> (all breeds) .....	7-14
8463 <b>Camarillo white - W4*</b> (all breeds).....	21-28
8174 <b>Champagne</b> (all breeds).....	3-5
8071 <b>Cream</b> (all breeds) .....	3-5
8298 <b>Curly</b> (all breeds).....	7-14
8227 <b>Dun</b> (all breeds).....	7-14
8422 <b>GQ Santana dominant white W10*</b> (all breeds).....	21-28
8159 <b>Graying*</b> (all breeds).....	21-28
8586 <b>Incontinentia pigmenti</b> (Hyperpigmentation) (all breeds) .....	7-14
8433 <b>Leopard complex</b> (all breeds).....	3-5
8726 <b>Mushroom</b> (Shetlandpony) .....	7-14
8183 <b>Pearl</b> (all breeds).....	7-14
8048 <b>Red factor</b> (Chestnut) (all breeds).....	3-5
8228 <b>Roan zygosity*</b> .....	21-28
breeds upon request	
8148 <b>Sabino-1</b> (all breeds) .....	7-14
8213 <b>Silver dapple</b> (all breeds) .....	7-14
8616 <b>Snowdrop</b> (Tinker/Gypsy Cob).....	7-14
8417 <b>Splashed white</b> (SW 1 + 2 + 3 + 4) (all breeds).....	7-14
8525 <b>Sunshine</b> (all breeds).....	7-14
8130 <b>Tobiano</b> (all breeds).....	7-14

**Performance**

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

8528 <b>Predictive height test</b> .....	3-14
Warmblood breeds	
8187 <b>Speed gene*</b> (Thoroughbred).....	7-14
8549 <b>Tractability</b> (Thoroughbred) .....	7-14

**DNA Profile / Parentage**

(sample material: 0.5 - 1 ml EDTA blood)

8109 <b>Parentage Analysis</b> (paternity test) .....	each parent.....	14-21
.....	each offspring.....	14-21
8507 <b>DNA profile</b> (all breeds).....		14-21

**Certificate**

8791 <b>Digital Certificate</b> (PDF) (charged per report) .....	
with digital copy protection	
8105 <b>Certificate printout</b> (charged per test).....	
copy protected; printed on forgery-proof paper, sent by postal mail incl. shipment tracking; plus shipping costs (SC) (SCs vary depending on the destination country up to EUR 25)	



# Farm Animal Specific Tests

## Profiles / Screenings

<b>7700 Ruminant Large Screening</b> .....	S+NaFB/1ml.....	2-3
AP, $\gamma$ -GT, bilirubin, cholesterol, triglycerides, glucose, AST, LDH, GLDH, CK, protein, albumin, globulins, urea, crea, Ca, Mg, K, Na, Fe, PO <sub>4</sub> , Cl, Cu, Zn, Se		
<b>+ Complete Blood Count</b> .....	+EB/1ml.....	••
<b>7300 Ruminant Performance Profile</b> .....	S/1ml.....	2-3
protein, urea, cholesterol, GLDH, NEFA, CK, $\gamma$ -GT, AST, bilirubin, Ca, PO <sub>4</sub> , Mg, Cl, $\beta$ -HBA, Se		
<b>+ Complete Blood Count</b> .....	+EB/1ml.....	••
<b>7550 Downer Cow Syndrome</b> .....	S/1ml.....	••
Ca, PO <sub>4</sub> , Mg, AST, CK, urea, protein		
<b>7610 Ketosis Profile</b> .....	S/1ml.....	2
GLDH, $\gamma$ -GT, bilirubin, protein, $\beta$ -HBA, NEFA, cholesterol, urea		
<b>7660 Bovine Fertility Profile</b> .....	S/1ml.....	2
AST, Ca, Na, PO <sub>4</sub> , Mg, $\beta$ -HBA, NEFA		
<b>7620 Supply Profile - Calf</b> .....	S+NaFB/1ml.....	2
glucose, protein, Ca, Na, PO <sub>4</sub> , Mg, Fe, IgG		
<b>7621 Supply Profile - Calf + Vit. E/Se !</b> .....	SI+NaFB/2ml.....	5
<b>7630 Weak Calf Profile</b> .....	S/1ml.....	2
protein, Ca, PO <sub>4</sub> , Zn, Fe		
<b>7631 Weak Calf Profile + Endoparasites</b> .....	S/1ml+FA.....	2
<b>7640 Mineral Profile I</b> .....	S/1ml.....	2-3
Ca, Na, PO <sub>4</sub> , Mg, Zn, Cu, Se		
<b>4010 Mineral Profile II</b> .....	S/3ml.....	2-4
Ca, Na, PO <sub>4</sub> , Mg, Zn, Cu, Se, K, Cl, Fe, Mn		
<b>7650 Large Porcine Profile</b> .....	S/1ml.....	2-3
$\gamma$ -GT, GLDH, bili, ALT, AST, protein, CK, urea, crea, Ca, PO <sub>4</sub> , Na, Mg, K, Se, Zn, Cu		
<b>+ Complete Blood Count</b> .....	+EB/1ml.....	••
<b>7651 Small Porcine Profile</b> .....	S/0.5ml.....	••
$\gamma$ -GT, GLDH, bili, urea, crea		
<b>+ Complete Blood Count</b> .....	+EB/1ml.....	••
<b>4001 Muscular Screening</b> .....	S/1ml.....	••
CK, $\alpha$ -HBDH, AST, LDH, Na, K, Ca, PO <sub>4</sub> , Mg, Fe		
<b>1204 Heavy Metal Toxicity Screening</b> .....	S+EB/2ml+H/5ml.....	8
arsenic, lead, cadmium, chrome, copper, manganese, mercury, thallium, zinc		

## Liver

<b>1001 Initial Screening</b> .....	S/0.5ml.....	••
AST, GLDH, $\gamma$ -GT		

## Kidney / Urine

see dog / cat page 8

## Haematology

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

for more tests, see dog / cat page 6

## Pregnancy Diagnostics

<b>135 Progesterone</b> (day 18/19) .....	S/0.5ml.....	••
<b>2506 PAG</b> (cattle/sheep/goat) .....	S/1ml.....	3-4
from day 28		

## Endocrinology

<b>137 Thyroxine T4</b> .....	S/0.5ml.....	••
<b>609 Insulin !</b> (fasted) .....	S/1ml.....	2
<b>136 Testosterone</b> .....	S/0.5ml.....	3-4
<b>2212 Anti-Müllerian Hormone (AMH) !</b> .....	S/0.5ml.....	2

## Immunology

<b>748 Immunoglobuline G</b> (calf).....	S/0.5ml.....	2
<b>751 Immunoglobuline G</b> (cattle) .....	S/0.5ml.....	2-3
<b>1003 Serum Protein Electrophoresis</b> .....	S/1ml.....	2

## Others

<b>1051 IGF I</b> (Somatomedin) ! .....	S/0.5ml.....	2
<b>208 Haptoglobin</b> .....	S/0.5ml.....	2
<b>1825 Net Acid-base Excretion (NABE) !</b> .....	H/15ml.....	3-4

## Single Determinations - Clinical Chemistry

<b>2236 Glutathione peroxidase (GPx)</b> .....	EB,HB/0.5ml.....	2
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for more tests, see dog / cat page 12

## Vitamins

<b>210 <math>\beta</math>-Carotene</b> .....	S/0.5ml.....	2-3
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others see dog / cat page 13



	Sample	Turnaround time
<b>Toxicology</b>		
97 <b>NEW! Colchicine !</b> frozen	H/5ml	3-4
<b>Serology (Antibodies/Antigen)</b>		
1572 <b>Anaplasma phagocytophilum</b>	EP,HP,S/0.5ml	2
8216 <b>APP*</b>	HP,S/0.5ml	6
567 <b>Aspergillus</b>	S/0.5ml	2
571 <b>Babesia</b> (microscopical)	EB/1ml+BS	2
2513 <b>BHV-1*</b>	Mi,S/1ml	6
2512 <b>BHV-1 gE*</b>	S/1ml	6
2511 <b>BHV-1 gB*</b>	S/1ml	6
176 <b>Borrelia</b>	EP,HP,S/0.5ml	2
5010 <b>Bornavirus*</b>	S/0.5ml	8
1660 <b>Brucella</b>	HP,S/0.5ml	4
2514 <b>BVDV*</b>	Mi,S/0,5ml	6
2350 <b>CAE virus</b>	S/0.5 ml	4
565 <b>Chlamydia</b>	EP,HP,S/0.2ml	2
372 <b>NEW! Corynebacterium pseudotuberculosis*</b> sheep, goat, New World camelids	S/1ml	6
2353 <b>Coxiella burnetii</b>	S/0.5ml	Wed
2134 <b>Fasciola hepatica</b>	Mi,TaM,HP,S/0.5ml	4
157 <b>Leptospira</b> (MAT)	EP,HP,S/0.5ml	2
564 <b>Listeria</b> (Type 1 + 4b)	EP,HP,S/0.5ml	2
2351 <b>Maedi-Visna</b>	S/0.5ml	4
2360 <b>Mycoplasma hyopneumoniae*</b>	S/1ml	6
1569 <b>Neospora</b> (ELISA)	EP,HP,S/0.5ml	4
2634 <b>Ostertagia ostertagi</b>	Mi/0.5ml	4
2633 <b>Mycobacterium paratuberculosis</b>	Mi,S/1ml	4
577 <b>Porcine Parvovirus*</b>	S/1ml	6
579 <b>PRRSV*</b>	S/1ml	6
132 <b>Toxoplasma</b>	EP,HP,S/0.5ml	2

**Serological Profiles**

1240 <b>Bovine Respiratory Profile</b> BRSV, BPIV-3, Mycoplasma bovis	S,HP/1ml	6
1250 <b>Bovine Abortion Profile</b> Neospora caninum, Coxiella burnetii, leptospira, chlamydia, BVDV*	S/3ml	6
1251 <b>Small Ruminant Abortion Profile</b> Coxiella burnetii, chlamydia, leptospira, listeria	S/3ml	2-4
1241 <b>Porcine Respiratory Profile</b> APP*, Mycoplasma hyopneumoniae*, PRRSV*	S/3ml	6
1260 <b>Porcine Reproduction Profile</b> leptospira, PRRSV*, chlamydia	S/2ml	6
1252 <b>Camelid Abortion Profile</b> leptospira, chlamydia, Toxoplasma gondii	S/2ml	2-4

**PCR Assays**

8182 <b>Anaplasma phagocytophilum</b>	EB,Z	2-4
8056 <b>APP*</b>	A,NSP	8-15
8019 <b>UPDATE! Babesia</b> (Piroplasmida) also determines cytauxzoon, theileria; incl. species diff.	EB,Z	2-4
8134 <b>BHV-1*</b>	A	8-15
8583 <b>Bluetongue Virus</b> (BTV 1-24)	EB	2-4
8162 <b>Bordetella bronchiseptica</b>	A	2-4
8343 <b>Bornavirus</b>	LQ,EB	2-4
8010 <b>Borrelia</b>	HT,LQ,SV,Z	2-4
8587 <b>Bovine Coronavirus</b>	FA,A	2-4
8412 <b>BPIV-3</b>	A,NSP	2-4
8058 <b>Brachyspira hyodysenteriae/pilosicoli</b>	FA	2-4
8413 <b>BRSV</b>	A,NSP	2-4
8423 <b>BVDV</b>	EB,Mi,FA,AM	2-4
8004 <b>Chlamydia</b>	A,TSP,Mi,H,FA,AM	2-4
8424 <b>Coxiella burnetii</b>	A,Mi,H,FA,AM	2-4
8416 <b>Cryptosporidia</b>	FA	2-4
8489 <b>Dermatophytes</b>	HA,HT,K	3-5
8020 <b>Histophilus somni</b>	A,NSP	2-4
8223 <b>Influenza A Virus</b>	A,NSP	2-4
8059 <b>Lawsonia intracellularis</b>	FA	2-4
8031 <b>Leptospira</b>	H+EB,Mi,Sp,AM	2-4

	Sample	Turnaround time
8026	<b>Mannheimia haemolytica</b> ..... A,NSP	2-4
8425	<b>Mycobact. avium ssp. paratuberculosis</b> (MAP)...FA	2-4
8436	<b>Mycoplasma bovis</b> ..... A,NSP,Mi,SV,Sp	2-4
8176	<b>Mycoplasma haemolamae</b> ..... EB lama, alpaca	2-4
8057	<b>Mycoplasma hyopneumoniae</b> ..... A,NSP	2-4
8106	<b>Mycoplasma suis</b> ..... EB	2-4
8029	<b>Neospora caninum</b> ..... AM	2-4
8426	<b>Pasteurella multocida</b> (toxin producing) ..... A,NSP	2-4
8002	<b>Porcine Circovirus 2</b> (PCV-2)..... A,EB,AM	2-4
8670	<b>Porcine Coronavirus</b> (TGE) ..... FA	2-4
8669	<b>Porcine Parvovirus</b> (PPV) ..... A,EB,AM	2-4
8036	<b>PRRSV</b> (incl. diff. EU/NA/HP-NA)..... A,NSP,EB,Sp,AM	2-4
8103	<b>Toxoplasma gondii</b> ..... AM	2-4
8999	<b>Tritrichomonas foetus</b> ..... PSPA	2-4
<b>Tissue samples are also suitable for PCR assays, depending on the pathogen distribution.</b>		
<b>Infectious Disease Profiles</b>		
8432	<b>Bovine Abortion Profile</b> ..... AM,A+TM bacteriology, PCR: Neospora caninum, Coxiella burnetii, chlamydia, BVDV	3-4
8427	<b>Bovine Respiratory Profile 1</b> ..... NSP,A+TM bacteriology, PCR: BRSV, BPIV-3, Mycoplasma bovis	3-4
8428	<b>Bovine Respiratory Profile 2</b> ..... NSP,A PCR: Mannheimia haemolytica, Pasteurella multocida (toxin producing), Histophilus somni, Mycoplasma bovis	2-4
8431	<b>Camelid Abortion Profile</b> ..... AM,A PCR: leptospira, Toxoplasma gondii, chlamydia	2-4
8448	<b>Mastitis PCR Profile*</b> ..... Mi PCR assays for 16 mastitis pathogens (incl. mycoplasma, yeast, Prototheca spp.) and $\beta$ -lactamase gene (no antibiogram)	3-4
8441	<b>Porcine Reproduction Profile</b> ..... AM,A PCR: PPV, PRRSV, PCV-2, leptospira, chlamydia	2-4
8440	<b>Porcine Respiratory Profile</b> ..... NSP,A+TM bacteriology, PCR: M. hyopneumoniae, APP*, PRRSV, Influenza A, Pasteurella multocida (toxin producing) (turnaround time: APP up to 14 days)	3-4
8430	<b>Small Ruminant Abortion Profile</b> ..... AM,A+TM bacteriology, PCR: chlamydia, Coxiella burnetii	3-4

**Bacteriology and Milk Examination**

**Swabs / Aspirates / Milk**

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

**If necessary:**

725	<b>Antibiogram</b> ..... fixed price	
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for more bacteriological tests, see dog / cat page 15

**Digestive Disorders and Diarrhoea – Faecal Examination**

**Microbiology**

2450	<b>Faecal Bacteriology</b> ..... FA incl. salmonella	3-4
1168	<b>Bovine Faecal Profile</b> ..... FA bacteriology and mycology, salmonella, M. avium ssp. paratuberculosis (PCR), endoparasites	3-4
1171	<b>Calf Faecal Profile - Large</b> ..... FA bacteriology incl. salmonella & E. coli K99, mycology, endoparasites incl. cryptosporidia, coccidia, rotavirus, coronavirus	3-4
1062	<b>Calf Faecal Profile</b> (EIA) ..... FA rota-, coronavirus, E. coli K99, cryptosporidia	2
1173	<b>Porcine Faecal Profile</b> ..... FA bacteriology and mycology, salmonella, Lawsonia intracellularis (PCR)	3-4
1169	<b>Piglet Faecal Profile</b> ..... FA bacteriology and mycology, salmonella, Clostridium perfringens enterotoxin, endoparasites, rotavirus, coronavirus	3-4
8510	<b>E.coli eae Gene</b> (intimin) (PCR) ..... FA in addition to a bacteriological examination	4-5
1172	<b>Camelid Faecal Profile</b> ..... FA bacteriology incl. salmonella, mycology, gas producers, endoparasites incl. coccidia, cryptosporidia, rotavirus, coronavirus	3-4

for more tests, see dog / cat page 13

**Virology**

see Virology page 14

Sample Turnaround time

Sample Turnaround time

**Parasitology**

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

for more tests, see dog/cat page15

**Genetics**

8504 <b>β-Casein</b> (A1-A2) (cattle)..... EB .....	3-5
8049 <b>Freemartinism*</b> (cattle) .....	14-21
8037 <b>Bovine leucocyte adhesion deficiency*</b> .....	14-21
(BLAD) (cattle)	
8584 <b>Scrapie</b> (sheep)..... EB .....	7-14
8362 <b>Malignant hyperthermia</b> (MH)* (swine) .....	14-21
8607 <b>DNA Profile*</b> (cattle) .....	22-45

**Small Mammals**

**Clinical Chemistry - Profiles**

1013 <b>UPDATE! Small Mammals Screening</b> (small) (Rab, GP, Rt, Ms, Ha, Fr, Hh).....	HP,S/0.4ml .....	••
urea, crea, ALT, GLDH, protein		
1004 <b>UPDATE! Small Mammals Screening</b> (large) (Rab, GP, Rt, Ms, Ha, Hh) .....	HP,S/0.7ml .....	2
AP, GLDH, γ-GT, ALT, AST, bilirubin, bile acids, glucose, fructosamine, triglycerides, CK, protein, urea, crea, PO <sub>4</sub> , Ca, Na, K		
<b>+ Complete Blood Count</b> .....	+HB,EB/0.5ml.....	••
1104 <b>UPDATE! Small Mammals Screening</b> (large) + <b>T4</b> (GP)....	HP,S/0.7ml .....	2
AP, GLDH, γ-GT, ALT, AST, bilirubin, bile acids, glucose, fructosamine, triglycerides, CK, protein, urea, crea, PO <sub>4</sub> , Ca, Na, K, T4		
<b>+ Complete Blood Count</b> .....	+HB,EB/0.5ml.....	••
2404 <b>UPDATE! Ferret Screening</b> .....	NaFB+S,HP/0.5ml .....	••
glucose, fructosamine, triglycerides, ALT, GLDH, AST, CK, protein, albumin, globulins, urea, crea		
<b>+ Blood Count</b> .....	+HB,EB/0.5ml.....	••
1044 <b>UPDATE! Wild Hedgehog Profile</b> .....	HP,S/0.4ml+FA.....	3
urea, crea, ALT, GLDH, protein, Baermann Test (lungworm larvae)		
<b>+ Blood Count</b> .....	+HB,EB/0.5ml.....	••

**Haematology**

35 <b>Complete Blood Count</b> (incl. diff.) .....	EB,HB/0.5ml (+BS) .....	••
1010 <b>Leukogram</b> .....	EB,HB/0.5ml (+BS) .....	••
129 <b>Reticulocytes</b> .....	EB/0.5ml .....	2
215 <b>Blood Smear, cytological</b> .....	EB/1ml+BS .....	2

**Liver**

1003 <b>Serum Protein Electrophoresis</b> .....	HP,S/0.5ml .....	2
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**Single Determinations - Clinical Chemistry**

1041 <b>NEW! Serum Amyloid A</b> (SAA) (rab) .....	S/0.5ml .....	2
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for more tests, see dog / cat page 12

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



Sample Turnaround time

Sample Turnaround time

**Hormones**

1123	<b>17 OH-Progesterone</b> .....	S/0.5ml .....	3-6
18	<b>Cortisol</b> .....	S/0.5ml .....	2
2094	<b>Adrenal Profile (Fr)</b> .....	S/0.7ml .....	3-6
	17 OH-progesterone, androstenedione, oestradiol		
134	<b>Oestradiol (Fr)</b> .....	S/0.5ml .....	Tue/Fri
135	<b>Progesterone</b> .....	S/0.5ml .....	••
136	<b>Testosterone</b> .....	S/0.5ml .....	3-4
137	<b>Thyroxine T4</b> .....	S/0.4ml .....	••
126	<b>Free T4 (fT4)</b> .....	S/0.4ml .....	2
1328	<b>Saliva Cortisol (GP)</b> .....	Saliva/0.1ml .....	6
1329	<b>Saliva Cortisol Stimulation Test (GP)</b> .....	2xSaliva/0.1ml .....	6

**Tumour Marker**

1038	<b>UPDATE! Thymidine Kinase ! (Rab, GP, Fr)</b> ....	S/0.5ml .....	Tue/Fri
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**Serology (Antibodies/Antigen)**

363	<b>NEW! Adenovirus*</b> (Rab, GP, Rt, Ms).....	EP,HP,S/0.5ml .....	6
413	<b>Cytomegalovirus*</b> (Ms, GP, Rt) .....	S/0.5ml .....	4-6
610	<b>Dirofilaria - Antigen (Fr)</b> .....	EP,HP,S/0.5ml .....	2
2020	<b>E. cuniculi (IgG) (Rab, GP)</b> .....	EP,HP,S/0.5ml .....	2
2120	<b>E. cuniculi (IgM+IgG) (Rab)</b> .....	EP,HP,S/0.5 ml .....	2
1047	<b>UPDATE! E. cuniculi Profile (Rab)</b> .....	S/0.5ml .....	2
	E. cuniculi IgG + IgM, serum protein electrophoresis		
	<b>+ Complete Blood Count</b> .....	+HB,EB/0.5ml.....	2
144	<b>UPDATE! Distemper Virus (Fr, racoon)</b> .....	EP,HP,S/0.5ml .....	2
415	<b>Hantavirus*</b> (Rt, Ms) .....	S/0.5ml .....	4-6
414	<b>Lymphocytic Choriomeningitis Virus*</b> .....	S/0.5ml .....	4-6
	LCMV (GP, Ms,Ha)		
416	<b>Myxomavirus*</b> (Rab) .....	S/0.5ml .....	4-6
411	<b>Sendai Virus*</b> (Rab, GP, Rt, Ms, Ha) .....	S/0.5ml .....	4-6
132	<b>UPDATE! Toxoplasma (IgG + IgM) (Rab, GP)</b> ...	EP,HP,S/0.5ml .....	2
412	<b>Treponema paraluisuniculi*</b> (Rab) .....	S/0.5ml .....	3-4

**Microbiology**

see dog / cat page 15

**Microbiology - Single Determinations**

see dog / cat page 13

**Faecal Profiles**

2170	<b>Rodent and Rabbit Faecal Profile</b> .....	FA .....	3-4
	bacteriology and mycology, salmonella, endoparasites		
1177	<b>Ferret Faecal Profile</b> .....	FA .....	3-4
	bacteriology and mycology, salmonella, endoparasites, giardia antigen (EIA)		

**Parasitology - Profiles**

87	<b>NEW! Ferret and Chinchilla Parasite Profile</b> FA .....	FA .....	2
	endoparasites, giardia antigen (EIA)		
89	<b>NEW! Hedgehog Parasite Profile</b> .....	FA .....	3
	endoparasites, Baermann Test (lungworm larvae)		

for more parasitological tests, see cat / dog page 15

**PCR Profiles**

8278	<b>Rabbit Respiratory Profile</b> .....	A .....	2-4
	Bordetella bronchiseptica, chlamydia, toxigenic Pasteurella multocida		
8559	<b>Ferret Respiratory Profile</b> .....	A,BAL,GW .....	2-4
	distemper virus, influenza A virus, SARS-CoV-2		

**PCR Assays**

8798	<b>Adenovirus (GP)</b> .....	A .....	2-4
8162	<b>Bordetella bronchiseptica (Rab)</b> .....	A .....	2-4
8004	<b>Chlamydia</b> .....	A .....	2-4
8771	<b>NEW! Coronavirus, enteric + systemic (Fr)</b> ..	FA .....	2-4
8416	<b>Cryptosporidia</b> .....	FA .....	2-4
8489	<b>Dermatophytes</b> .....	HA,HT,K .....	3-5
8003	<b>Distemper Virus (Fr, racoon)</b> .....	H,LQ,A,EB .....	2-4
8112	<b>EBHS Virus (hare)</b> .....	FA,H,L .....	2-4
8091	<b>Encephalitozoon cuniculi</b> .....	H,LQ .....	2-4
8342	<b>Francisella tularensis (Rab, Ms)</b> .....	A,Ln .....	2-4
8340	<b>Giardia</b> .....	FA .....	2-4
8329	<b>Helicobacter spp. (Fr, Ha, Ms)</b> .....	V .....	2-4
8223	<b>Influenza A Virus</b> .....	A .....	2-4
8059	<b>Lawsonia intracellularis</b> .....	FA .....	2-4
8031	<b>Leptospira</b> .....	H+EB .....	2-4

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

	Sample	Turnaround time
8101 <b>Microfilaria</b> (Fr) .....	EB .....	2-4
8189 <b>Mycoplasma pulmonis</b> (Rt, Ms).....	A .....	2-4
8496 <b>Myxomavirus</b> (Rab) .....	A .....	2-4
8390 <b>Parvovirus</b> (Aleutian mink disease) (Fr) .....	A,FA,EB .....	2-4
8426 <b>Pasteurella multocida</b> (toxin producing) (Rab) .	A .....	2-4
8055 <b>Pox</b> (Orthopoxvirus) (Rab, GP, Rt, Ms) .....	K .....	2-4
8518 <b>RHD Virus 1+2</b> (incl. diff.) (Rab) .....	A,EB,FA,H,L.....	2-4
8060 <b>Salmonella</b> .....	A,FA .....	2-4
8178 <b>Sarcoptes scabiei</b> (Rab, Fr) .....	HT.....	2-4
8103 <b>Toxoplasma gondii</b> (Rab, GP) .....	LQ.....	2-4
8114 <b>Treponema paraluisuniculi</b> (Rab).....	K,A.....	2-4

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

**Pathology**

see page 20



**Birds**

**Clinical Chemistry - Profiles**

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

**Haematology**

35 <b>Complete Blood Count Bird</b> .....	HB/0.5ml (+BS).....	2-3
incl. differentiation		
1010 <b>Leukogram</b> .....	HB/0.5ml (+BS).....	2-3
215 <b>Blood Smear, cytological</b> (on request).....	EB,HB/1ml+BS .....	2
234 <b>Blood Parasites, microscopical</b> .....	EB,HB/0.5ml+BS .....	2

**Liver**

1003 <b>Serum Protein Electrophoresis</b> .....	HP,S/0.5ml .....	2
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**Toxicology**

105 <b>Lead</b> .....	EB,HB/1ml .....	2-3
34 <b>Zinc</b> .....	S/0.5ml .....	2

**Serology (Antibodies/Antigen)**

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

**Microbiology**

see dog/cat page 15

**Parasitology**

see dog / cat page 15

**Microbiology - Single Determinations**

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

for more tests, see dog / cat page 13

	Sample	Turnaround time
<b>Faecal Profiles</b>		
2166 <b>Avian Faecal Profile</b> .....	FA .....	3-4
bacteriology and mycology, salmonella, endoparasites		
1175 <b>Pigeon Faecal Profile</b> .....	FA .....	3-4
salmonella, endoparasites		
<b>PCR Profiles</b>		
6012 <b>Avian 1</b> .....	EB,F .....	3-6
PBFDV, sex determination		
604 <b>Avian 2</b> (PBFDV, polyomavirus) .....	EB,F .....	2-4
603 <b>Avian 3</b> .....	EB,F .....	3-6
sex determination, PBFDV, polyomavirus		
6010 <b>Avian 4</b> .....	EB,F .....	3-6
sex determination, PBFDV, polyomavirus, herpesviruses (e.g. Pacheco)		
6017 <b>Avian 5</b> .....	EB,F+A .....	3-5
PBFDV, polyomavirus, herpesviruses (e.g. Pacheco), chlamydia, bornavirus		
6018 <b>Avian 6</b> .....	EB,F+A .....	2-4
PBFDV, polyomavirus, chlamydia		
<b>PCR Assays</b>		
8495 <b>Adenoviruses</b> .....	A,FA .....	3-5
8517 <b>Bornavirus</b> .....	A .....	2-4
8004 <b>Chlamydia</b> .....	A,FA .....	2-4
601 <b>Circovirus</b> (Pbfd Virus) .....	EB,F .....	2-4
8092 <b>Circovirus</b> (pigeon) .....	EB,F,A,FA .....	2-4
8667 <b>Herpesviruses</b> (Pacheco and others) .....	EB,F,A,FA .....	3-5
8173 <b>Mycoplasma gallisepticum/synoviae</b> .....	A,FA .....	2-4
8244 <b>Paramyxovirus 1</b> (aPMV-1)* .....	A .....	5-9
602 <b>Polyomavirus</b> .....	EB,F,A .....	2-4
8177 <b>Pox</b> (Avipoxvirus) .....	K .....	2-4
8534 <b>Reoviruses</b> .....	A,FA .....	3-5
8060 <b>Salmonella</b> .....	A,FA,Egg .....	2-4
8668 <b>Trichomonas</b> .....	A .....	2-4
8296 <b>West Nile Virus</b> .....	A .....	2-4
<b>Tissue samples are also suitable for PCR assays, depending on the pathogen distribution.</b>		
<b>PCR Assay, Other</b>		
6011 <b>Sex determination</b> .....	EB,F .....	3-6
Please include the bird species (4 samples or more per submission: 15.40 Euro/sample)		

## Reptiles, Amphibians, Fish

### Clinical Chemistry / Screenings

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

### Haematology

35 <b>Complete Blood Count</b> (incl. differentiation) ....	HB/0.5ml (+BS) .....	2-3
1010 <b>Leukogram</b> .....	HB/0.5ml (+BS) .....	2-3
234 <b>Blood Parasites, microscopical</b> (reptile) .....	HB/0.5ml+BS .....	2

### Serology, Infectious Diseases (Antibodies)

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

### Pathology (Reptiles, Amphibians)

201 <b>Histopathology</b> (per clinical question) .....	3-4
tumour diagnostics, dermatopathology, organ biopsies up to 3 sites	
2209 <b>Histopathology requiring increased effort</b> .....	3-5
e.g. descriptive diagnoses up to 8 sites	
204 <b>Cytology</b> .....	•
aspirate, impression smears	

### Microbiology

for more tests see dog/cat page 15

### Faecal Examinations

1661 <b>Reptile Faecal Profile</b> .....	FA .....	3-4
bacteriology and mycology, salmonella		
175 <b>Salmonella</b> .....	FA .....	3-4
1215 <b>Ziehl-Neelsen stain</b> .....	FA .....	2
microscopic detection of acid-fast rods and crytosporidia		

	Sample	Turnaround time
<b>Parasitology</b>		
1149 <b>Endoparasites</b> (reptile) ..... flotation and SAFC, Ziehl-Neelsen stain, native smear	FA	2
149 <b>Endoparasites</b> ..... flotation and SAFC	FA	2
585 <b>Baermann Test</b> (lungworm larvae) .....	FA	3
2082 <b>Cryptosporidia - Antigen</b> (IFAT) (reptile) .....	FA,MSP	2
8416 <b>Cryptosporidia</b> (PCR) .....	FA,MSP	2-4
8516 <b>Differentiation</b> ..... if cryptosporidia PCR is positive		
<b>PCR Assays</b>		
8495 <b>Adenoviruses</b> (reptile) .....	A,GW	3-5
8497 <b>Arenaviruses/IBD</b> (boa, python) .....	A,EB,GW	2-4
8536 <b>Batrachochytrium dendrobatidis</b> ..... amphibian	A,GW	2-4
8477 <b>Batrachochytrium salamandrivorans</b> ..... amphibian/salamander	A,GW	2-4
8402 <b>Carp Edema Virus</b> (CEV) (carp) .....	GW	2-4
8004 <b>Chlamydia</b> (reptile, amphibian).....	A,LSP,GW	2-4
8416 <b>Cryptosporidia</b> (reptile) .....	FA,MSP	2-4
8516 <b>Differentiation</b> ..... if cryptosporidia PCR is positive		
8687 <b>Encephalitozoon pogonae</b> .....	FA,GW	2-4
8792 <b>NEW! Entamoeba invadens</b> ..... snake	FA, GW	2-4
8793 <b>NEW! Entamoeba spp.</b> ..... reptile	FA, GW	2-4
8050 <b>Herpesvirus</b> (KHV) (koi carp) .....	GW	2-4
8666 <b>Herpesviruses</b> (reptile) .....	A,GW	3-5
8478 <b>Differentiation</b> ..... tortoise; if herpesvirus PCR is positive		
8581 <b>Intranuclear coccidia</b> (TINC)..... tortoise, turtle	A,NSP,GW	2-4
8531 <b>Iridovirus</b> (lizard, feed insect) .....	A,HT,L	2-4
8088 <b>Mycoplasma</b> .....	A,NSP	2-4
8263 <b>Nidoviruses</b> (python, boa) .....	A,TSP,GW	2-4

	Sample	Turnaround time
8544 <b>Nidovirus</b> (Shingleback Nidovirus) .....	A,TSP	2-4
Tiliqua spp.		
8632 <b>Ophidiomyces ophidiicola</b> ..... snake	A,HT,GW	2-4
8122 <b>Paramyxoviruses/Ferlaviruses</b> (reptile) .....	A,TSP,GW	2-4
8533 <b>Picornavirus</b> (Virus "X") (tortoise).....	A,GW	2-4
8530 <b>Ranaviruses</b> .....	A,GW	2-4
reptile, amphibian, fish		
8534 <b>Reoviruses</b> (reptile).....	A,LSP,GW	3-5
8060 <b>Salmonella</b> (reptile, amphibian) .....	FA	2-4
8439 <b>Sunshinevirus</b> (python).....	A,GW	2-4

**PCR Profiles**

**Profiles Lizard and Snake (Squamata)**

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

**Profiles Tortoise and Turtle**

8560 <b>Respiratory Profile Large</b> (tortoise).....	A,NSP	3-5
PCR: herpesviruses, mycoplasma, picornavirus		
8290 <b>Respiratory Profile Small</b> (tortoise, turtle) .....	A,NSP	3-5
PCR: herpesviruses, mycoplasma		
1246 <b>Hibernation Check Small</b> (tortoise) .....	S,HP+A	8
large reptile profile, Ab: herpesvirus (TeHV-1 & 3), PCR: herpesviruses, mycoplasma		
1247 <b>Hibernation Check Large</b> (tortoise) .....	S,HP+HB+BS+A+FA	8
large reptile profile, complete blood count, Ab: herpesvirus (TeHV-1 & 3); PCR: herpesviruses, mycoplasma; endoparasites		
8566 <b>Quarantine Profile</b> (tortoise) .....	A,NSP+HP	8-15
PCR: herpesviruses, mycoplasma, picornavirus, ranaviruses; Ab: herpesvirus (TeHV-1 & 3)		
8295 <b>Aquatic Turtle Profile</b> .....	A,NSP	3-5
PCR: herpesviruses, mycoplasma, ranaviruses		

Sample Turnaround time

**Profiles Amphibian and Fish**

- 8567 **Amphibian Profile**..... A,GW .....2-4  
PCR: Batrachochytrium dendrobatidis, Batrachochytrium salamandrivorans, ranaviruses
- 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!

**Water Examination (Fish)**

Please indicate, whether the sample is freshwater or saltwater.

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

**Bees**

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

- 108 **Bee pathology (Book)** .....  
price in Euro + shipping costs

# Diagnostic Colour Atlas of Bee Pathology



This **Diagnostic Colour Atlas of Bee Pathology** is the first atlas of its kind (bilingual German/English). This atlas provides the essential basics necessary for understanding the functional anatomy of honey bees and the pathogenesis of bee diseases. With **its more than 350 colour images**, it is an informative and descriptive reference book for the diagnosis of honey bee diseases to be used by pathologists, scientists and students but also by interested beekeepers.







Culture plates (microbiology)

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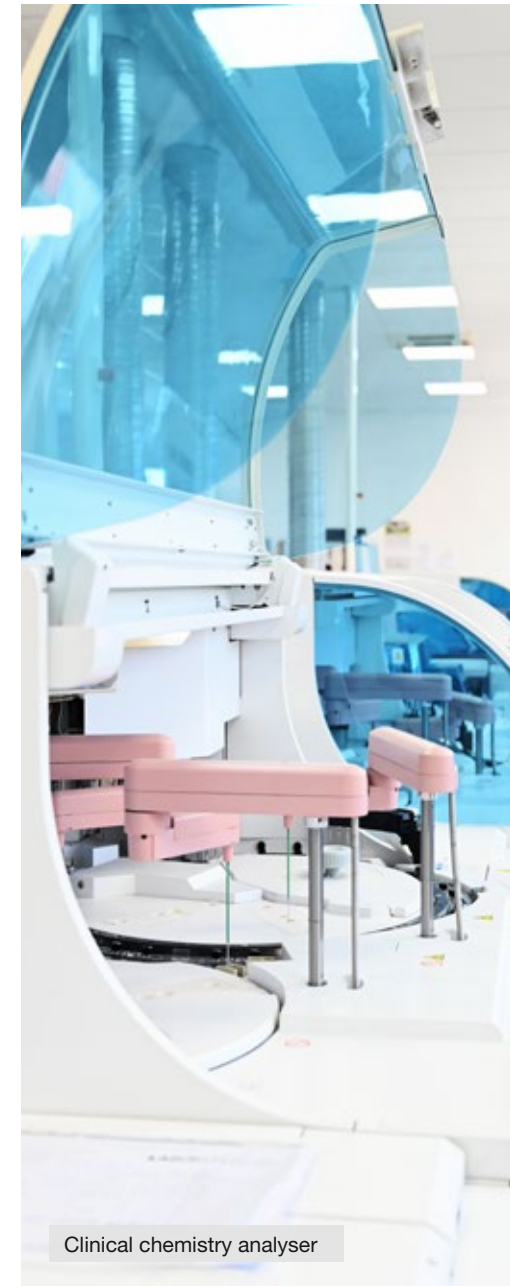
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## Preanalytics

### Blood, plasma, serum and urine samples

Stored sample tubes should be checked regularly 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 slowly along the rim of the tube and the sample tube should be gently inverted after collection. Blood samples for plasma need to be centrifuged promptly and the supernatant must be transferred to a new uncoated tube. Blood samples for serum should first be allowed to stand for 30 – 60 minutes and then centrifuged and pipetted. Blood smears should be prepared directly and stored and shipped at room temperature.

Urine should be collected fresh and possibly under sterile conditions. Blood contamination needs to be avoided, as it skews, for example, the results of the U-P/C and the cortisol-creatinine ratio.

### Parameters affecting the material

There are often several different requirements for samples at the same time. Those that must strictly be observed are indicated by numbers 1 – 4 (see next column for explanations).

- Can only be measured in serum: Aspergillus antibodies (see also material requirements above)
- Can only be measured in refrigerated serum: Androstenedione (1), CPSE (1, 3), IGF-1 (1), indoxyl sulphate (1), insulin (1, 3, except horse), PTH (1, 3), serotonin (protected from light) (1, 2), thymidine kinase (1), troponin I (1), vitamin D3 (1)
- Can only be measured in frozen serum: aldosterone (1, 4), dialysis fT4 (1, 4), erythropoietin (1, 3)
- Can only be measured in EDTA whole blood: blood group, Coombs test (direct), ciclosporin, microfilariae (Knott's test)

- Can only be measured in refrigerated EDTA plasma: ACTH (1), pro-BNP (1), taurine (1), PTHrP (1, 3)
- Can only be measured in frozen EDTA plasma: normetanephrine/metanephrine (protected from light) (1, 4)
- Only in refrigerated serum or plasma (EP, HP): AMH (only S, HP) (1), CPSE (1, 3), vitamin A (1), vitamin E (1)
- Can only be measured in refrigerated citrate plasma (ensure exact filling level, 9 parts blood + 1 part citrate!): D-dimers, von Willebrand antigen (1, 3)
- Can only be measured in citrate blood (ensure exact filling level, 9 parts blood + 1 part citrate!): thromboelastography
- Can only be measured in NaF blood: lactate
- Light protection is required for: serotonin, normetanephrine, metanephrine
- In refrigerated or frozen urine: normetanephrine/metanephrine creatinine ratio (protected from light) (4)

On arrival at the laboratory, the sample can only be analysed if it meets the following requirements:

- (1) **centrifuged and pipetted**
- (2) **refrigerated**
- (3) **at least refrigerated (or frozen)**
- (4) **frozen**

### Administration of medication

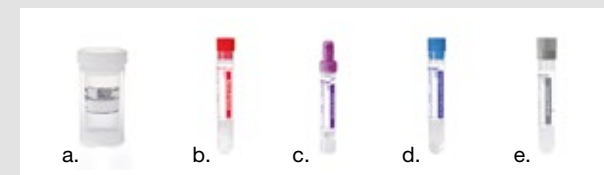
Many medicines, e.g. corticosteroids, various antibiotics, barbiturates, have a profound, sometimes species-specific influence on the concentration of clinical-chemical, endocrinological, serological and haematological parameters.

### Histology

- **Skin:** Submit a sufficient number of representative samples. Avoid collection artefacts: electrocoagulation, ripping, squashing, autolysis adversely affect the analysis. Ideal sample size: 0.5-1.0 cm, punch biopsies skin: 0.6 cm
- **Tumours:** The evaluation of the margins requires e.g. submission of all of the tissue (possibly incl. tumour bed biopsies). Formalin fixed 10%. Clinical history needed (fill out pathology submission form).

### Cytology

Smears following air drying for evaluation of cells, especially tumour cells and inflammatory cells. Staining: Diff-Quick®, stained samples can also be submitted. Special stains (e.g. for fungi, mycobacteria, copper) available. Results usually on the same day.



- a: Formalin container
- b: Serum tube
- c: EDTA tube
- d: Citrate tube
- e: NaFB tube

### Polymerase chain reaction (PCR)

Pathogens that cause viraemia, parasitaemia, or bacteraemia can be directly detected in EDTA blood during this phase of infection. At least 0.2 ml is necessary for the analysis.

Swabs should be submitted without medium (exception: CEM profiles, which require swabs with Amies transport medium). Pathogen detection in faeces requires a sample amount of about the size of a hazelnut. As some pathogens (e.g. coronavirus, *Tritrichomonas foetus*) are only shed intermittently, we recommend collecting faeces over 3 days.

Additional sample materials for PCR assays, e.g. tissue, urine and aspirate, 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. Repeated freeze/thaw cycles should be avoided.

### 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. Two swabs without transport medium should be submitted per animal. 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.

### Microbiological / parasitological testing

It is important to label all samples and to include the animal species and sample location, since it may be necessary to use additional special plates in some cases.

- **Swabs for cultivating bacteria** (aerobic and anaerobic) should be submitted in **transport medium**. Samples from localisations such as abscesses should be tested for anaerobes as well as aerobes. Some bacteria (e.g. chlamydia, mycoplasma) are detected by PCR.
- For these, 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, 3-4 flasks (sets) at different time points if possible. Each time use one aerobe and one anaerobe flask with bouillon.
- **Hair & crusts** should be collected from the edge of the lesion, hair 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, immunophenotyping), crossmatch test, thromboelastography, clinical-chemical and cultural urine tests.

< 72 h after sampling: thrombocyte antibodies

### Sample storage time:

**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,**

**DNA samples** (genetic tests) for 5 years.

For more information, please see the Compendium.



**f:** Large swab with transport medium

**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.

**Mobile access**  
to your test results



YEAR 2022	
01 January	New Year's Day
15 April	Good Friday (only DE)
18 April	Easter Monday
27 April	Kingsday (only NL)
01 May	Labour Day (only DE)
26 May	Ascension Day
06 June	Whit Monday
03 October	German Unity Day (only DE)
25 December	Christmas Day
26 December	2 <sup>nd</sup> Day of Christmas

YEAR 2023	
01 January	New Year's Day
07 April	Good Friday (only DE)
10 April	Easter Monday
27 April	Kingsday (only NL)
01 May	Labour Day (only DE)
18 May	Ascension Day
29 May	Whit Monday
03 October	German Unity Day (only DE)
25 December	Christmas Day
26 December	2 <sup>nd</sup> Day of Christmas



# LABOKLIN offers complete service

## Free sampling and shipping materials

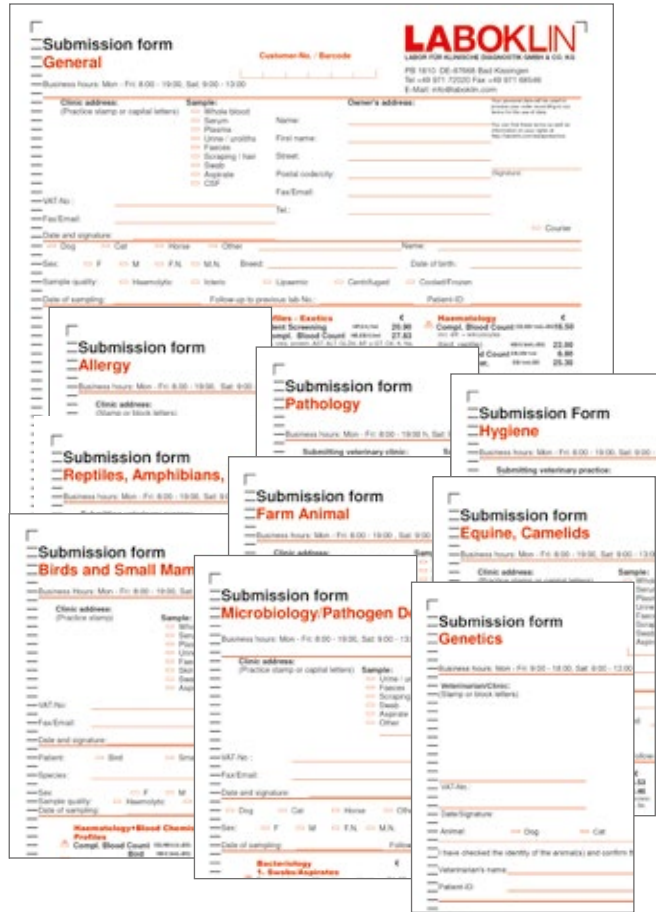


...and many more

## Materials available for a fee



## Submission forms



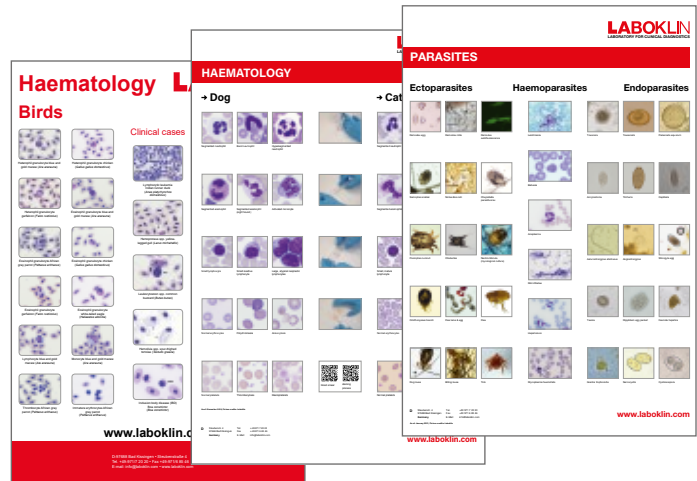
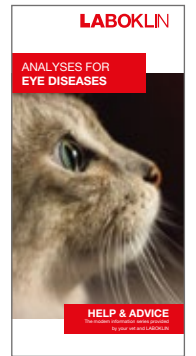
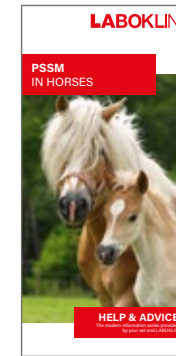
## Barcodes



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

Barcodes help with safety and efficacy in your clinic or practice as well as with orientation.

## Information materials



## General Information Regarding Cooperation with LABOKLIN N.V.

### 1. Sample transportation / courier service

In The Netherlands LABOKLIN works with the courier NOX Night Time Express. We charge EUR 3 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 contamination. LABOKLIN provides such protective outer packaging free of charge. 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:

- e-mail
- [www.laboklin.com](http://www.laboklin.com), where you can follow the testing and download or forward the results.
- the LABOKLIN app, where you can track your samples, view or forward the results and even reply to us for additional testing etc.

### 4. Re-ordering of tests or additional testing

All serum samples are stored for 14 days, EDTA blood samples for 7 days. 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. 59).

### 5. Invoicing

All prices listed on the submission forms and in the catalogue are quoted without the applicable Value Added Tax (VAT). Invoices to Dutch clients will be sent with 21% VAT. Foreign clients will receive invoices with 21% VAT, unless the VAT-number is given. We issue invoices to the veterinary clinic in the first two weeks of the next 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 1.4 plus applicable VAT. This is only possible for most genetic tests and for submissions that include the owner's signature and complete data.

### 6. Data protection notice

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

### 7. Cooperation with external labs

Conditions on demand.

### 8. Turnaround time

The listed turnaround times cannot be guaranteed. Turnaround times 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 01.07.2022 until 30.06.2023

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://nl.laboklin.info/algemene-bedrijfsvoorwaarden/>

#### Abbreviations:

A = swab  
(without medium for PCR)  
AM = abort material  
AS = ascites  
B = bees  
BAL = bronchoalveolar lavage  
BL = bee larvae  
BS = blood smear  
CB = citrate blood  
CP = citrate plasma  
EB = EDTA blood  
EP = EDTA plasma  
F = feathers (plucked!)

FA = faeces  
FL = flea  
GW = tissue  
H = urine  
HA = hair  
HB = heparin blood  
HP = heparin plasma  
HS = urinary stone  
HT = skin  
K = scab  
KM = bone marrow  
KW = aqueous humor  
L = liver  
LQ = cerebrospinal fluid

Ln = lymph node  
LSP = lung lavage  
M = spleen  
MH = morning urine  
Mi = milk  
MSP = gastric lavage  
NaFB = sodium fluoride blood  
NSP = nasal lavage  
OT = slides  
PSP = preputial lavage  
S = serum  
SAFC = Sodium acetate-Acetic-acid-Formalin Concentration  
Sp = semen

SV = synovia  
TaM = bulk tank milk  
TM = swab with medium  
TSP = tracheal lavage  
V = vomit  
W = water  
Z = tick  
\* = partner lab  
! = cooled (! by the test name applies to all materials; if ! is by material, then it applies only to this material)  
• = same day result on Mon-Fri  
•• = same day result on Mon-Sat  
Mon/Tue/Wed/Thu/Fri/Sat  
= tests carried out on these days

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