

## Vet-Med-Labor

Veterinary Diagnostic Laboratory Network

*The demand for proficiency*

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[www.vetmedlab.eu](http://www.vetmedlab.eu)

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Opening hours: Monday – Friday: 9<sup>00</sup> – 20<sup>00</sup>

Saturday: 10<sup>00</sup> – 13<sup>00</sup>



## Sender Clinic or Veterinarian

Name:

Address:

Phone:

E-mail:

## Owner information

**Owner name:**

**Owner address:**

## Animal information

**Name:**

**Clinic ID:**

**Sex:** male / female / neutered male / neutered female

**Date of birth:**

**Species:** dog / cat / horse / ferret

Other:

**Breed:**

**Chip No.:**

## Sample information:

**Fasted state sample:** Yes / No

**Date of sampling:**

☐ EDTA (purple cup)

☐ Native (red cup)

☐ Serum separation (yellow cup)

☐ Enzyme inhibitor (gray cup)

☐ Heparin (green cup)

☐ Citrate (light blue cup)

☐ Eppendorf tube

**Transport culture medium**

☐ Urine collection jar

☐ Faeces collection jar

☐ Cotton wool stick

☐ Smear

☐ Syringe

☐ Fur / feathers

## Medical history information

### Cytology and histology examination

Origin of sample:

Lesion(s):

- place

- size

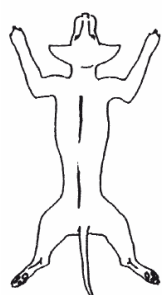
- surface

- palpation

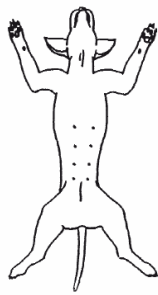
- beginning of observed lesions

- previous operations information

## Other comments:



dorsalis



ventralis

## Panel tests

### General test panels

- ☐ Basic routine
- ☐ General routine (canine)
- ☐ General routine (feline)
- ☐ General routine (equine)
- ☐ General routine (ruminant)
- ☐ General routine (avian)
- ☐ General routine (reptile)
- ☐ General routine (rabbit and rodents)
- ☐ General routine (ferret)

- ☐ Electrolyte panel
- ☐ Pre-operation routine I.
- ☐ Pre-operation routine II.
- ☐ Energy panel (ruminant)
- ☐ Energy panel package (ruminant)
- ☐ Geriatrics panel

- ☐ South-Africa panel
- ☐ Large blood panel

### Disease specific test panels

- ☐ FIP screen
- ☐ Thyroid gland panel
- ☐ Cushing/Addison test
- ☐ Epilepsy panel

### Organ-specific test panels

- ☐ Endocrine panel
- ☐ Pancreatic function (canine)
- ☐ Pancreatic function (feline)
- ☐ Liver function (basic)
- ☐ Liver function (complete)
- ☐ Kidney function
- ☐ Myocardial panel

### Symptom-specific test panels

- ☐ Alopecia panel
- ☐ Anemia panel (feline)
- ☐ Anemia panel (canine)
- ☐ Ascites/Oedema panel
- ☐ Chronic diarrhoea (faeces)
- ☐ Chronic diarrhoea (blood, canine)
- ☐ Chronic fever panel
- ☐ Icterus panel (feline)
- ☐ Icterus panel (canine)
- ☐ Polyuria/Polydipsia panel
- ☐ Vomitus panel
- ☐ EPI panel

- ☐ Tick and mosquito panel (canine)

### Symptom-specific PCR test panels

- ☐ Reproduction PCR panel (real-time PCR)
- ☐ Eye PCR panel (real-time PCR)

## Haematologic and Coagulation tests

### Haematology

- ☐ Quantitative and qualitative blood count (Cell-dyn 3500, 20 parameters)
- ☐ Cellular parasite analysis I (smear)
- ☐ Cellular parasite analysis II (smear + Knott method)
- ☐ Morphologic analysis of blood cells (smear)
- ☐ Microfilaria analysis (Knott method)
- ☐ Osmotic resistance
- ☐ Reticulocyte count and ratio with Cell-dyn 3500
- ☐ Blood-group definition (canine)
- ☐ Blood-group definition (feline)
- ☐ Sedimentation rate

### Coagulation

- ☐ APTI
- ☐ PTI
- ☐ Fibrinogen
- ☐ APTI + PTI + Fibrinogen
- ☐ D-dimer concentration
- ☐ Factor VIII analysis

## Biochemistry

### Liver

- ☐ ALKP
- ☐ ALT
- ☐ AST
- ☐ Direct bilirubin
- ☐ Bile acid
- ☐ GGT
- ☐ GLDH
- ☐ SIAP
- ☐ Total bilirubin

### Proteins

- ☐ Albumin
- ☐ CRP
- ☐ Protein electrophoresis (ELFO)
- ☐ Fibrinogen
- ☐ Total protein

### Pancreas

- ☐ Amylase
- ☐ Fructose amine
- ☐ Glucose
- ☐ Lipase
- ☐ Pancreas amylase
- ☐ Pancreas elastase (faeces)
- ☐ TLI (canine)
- ☐ B12
- ☐ Folic acid
- ☐ B12 + TLI + folic acid (canine)
- ☐ fPL (feline)

### Fats

- ☐ Beta carotene
- ☐ BHB
- ☐ NEFA
- ☐ Total cholesterol
- ☐ Triglyceride

### Kidney

- ☐ Phosphorus
- ☐ Uric acid
- ☐ Carbamide
- ☐ Creatinine

### Ions

- ☐ Cl
- ☐ HCO3
- ☐ K
- ☐ Ca
- ☐ Mg
- ☐ Na

### Macro- and microelements

- ☐ Zink
- ☐ Ferritin
- ☐ Folic acid
- ☐ Copper
- ☐ Selenium
- ☐ Total transferrin
- ☐ Iron
- ☐ Iron binding capacity

### Muscle specific tests

- ☐ Acetylcholine receptor antibody
- ☐ CK
- ☐ CK-MB
- ☐ CRP
- ☐ LDH
- ☐ LDH-1
- ☐ Pro-BNP (canine, feline)
- ☐ Troponin
- ☐ Serum index

## Drug levels

- ☐ Bromide
- ☐ Digoxin
- ☐ Phenobarbital
- ☐ Carbamazepine

## Toxicology

- ☐ Detection of poison (stomach content + blood)
- ☐ Lead

## Vitamins

- ☐ Vitamin B12
- ☐ Folic acid
- ☐ Vitamin E
- ☐ Vitamin D3

## Endocrinology

### Thyroid gland hormones

- ☐ K-factor
- ☐ Free T4
- ☐ Total T4 (TT4)
- ☐ TRH stimulation (2 TT4 measurements)
- ☐ TRH stimulation (3 TT4 measurements)
- ☐ TSH
- ☐ TSH, TT4, TT4/TSH ratio
- ☐ Thyreoglobulin antibody
- ☐ Thyroxine antibody

### Sex hormones

- ☐ hCG-stimulation test with 2 testosterone measurements
- ☐ Estradiol
- ☐ PMSG
- ☐ Progesterone
- ☐ Relaxin
- ☐ Testosterone

### Adrenal glands hormones

- ☐ Cortisol (from blood)
- ☐ Cortisol (from urine)
- ☐ Cortisol/creatinine ratio (urine)

During a provocation test

- ☐ 2 cortisol measurements
- ☐ 3 cortisol measurements

### Pregnancy diagnostic

- ☐ PMSG (equine 40-100 days)
- ☐ Progesterone (equine from day 18)
- ☐ Relaxin (canine/feline from day 25)
- ☐ Estrone sulfate (equine from day 70)

## Cytology and Histology

- ☐ Cytology of smear or punctatum
- ☐ Complete analysis of body cavity effusion
- ☐ Analysis of organ sample fixed in formalin
- ☐ Analysis of organ sample fixed in formalin (URGENT)
- ☐ Multiple (n) samples from the same patient
- ☐ Immunohistochemistry

## Serology

### Canine virological serology

- ☐ Coronavirus (f Ag-ELISA)
- ☐ Herpesvirus (Ab-IF)
- ☐ Parvo-antigen (f Ag-ELISA)
- ☐ Parvo-antibody (Ab-ELISA)
- ☐ Parvo + Coronavirus (f Ag-ELISA)
- ☐ Rotavirus (f Ag-ELISA)
- ☐ Distemper-virus antigen (Ag-ELISA)
- ☐ Distemper+Adenovirus antigen (Ag-ELISA)
- ☐ Distemper-virus antibody (Ab-ELISA)

### Canine bacteriological serology

- ☐ Brucella canis (Ab-ELISA)
- ☐ Chlamydomphila-antibody (Ab-IF)
- ☐ Ehrlichia canis (Ab-ELISA)
- ☐ Helicobacter (f Ag-ELISA)
- ☐ Helicobacter (Ab-ELISA)
- ☐ Leptospira IgG titer for 7 serotype (Agglut.)
- ☐ Lyme-borrelia IgG+IgM (Ab-ELISA)
- ☐ Lyme-borrelia IgG titer (Ab-IF)
- ☐ Lyme-borrela (Immunoblot)
- ☐ Lyme+Anaplasma+Ehrlichia+Heartworm

### Canine parasitological serology

- ☐ Babesia canis (Ab-IF)
- ☐ Babesia gibsoni (Ab-IF)
- ☐ Giardia (f Ag-ELISA)
- ☐ Giardia+Cryptosporidium (f Ag-ELISA)
- ☐ Leishmania (Ab-ELISA)
- ☐ Microfilaria (Knott method)
- ☐ Heartworm (Dirofilaria immitis) (Ag-ELISA)
- ☐ Toxoplasma gondii IgG (Ab-IF)
- ☐ Lyme + Anaplasma + Ehrlichia + Heartworm
- ☐ Trypanosoma evansi (Agglut.)

### Feline virological serology

- ☐ FeLV (Ag-ELISA)
- ☐ FIV (Ab-ELISA)
- ☐ FIP (Ab-ELISA)
- ☐ FIP titer (Ab-IF)
- ☐ FeLV + FIV + FIP (ELISA)
- ☐ Herpesvirus (FHV) (Ab-IF)
- ☐ Rotavirus (f Ag-ELISA)

### Feline bacteriological serology

- ☐ Anaplasma phagocytophilum (Ab-IF)
- ☐ Chlamydomphila antibody (Ab-IF)
- ☐ Helicobacter (f Ag-ELISA)
- ☐ Helicobacter (Ab-ELISA)
- ☐ Leptospira IgG titer 7 serotype (Agglut.)
- ☐ Lyme-borrelia IgG titer (Ab-IF)

### Feline parasitological serology

- ☐ Giardia +Cryptosporidium (f Ag-ELISA)
- ☐ Giardia (Ag-ELISA)
- ☐ Microfilaria (Knott method)
- ☐ Heartworm (Dirofilaria immitis) (Ag-ELISA)
- ☐ Toxoplasma gondii IgG+IgM (Ab-ELISA)

### Equine virological serology

- ☐ Rotavirus (f Ag-ELISA)
- ☐ Equine Herpes 1+4 (Ab-ELISA)

### Equine parasitological serology

- ☐ Theileria (Babesia) equi (Ab-IF)
- ☐ Babesia caballi (Ab-IF)
- ☐ Cryptosporidium (f Ag-ELISA)

## Equine bacteriological serology

- ☐ Anaplasma phagocytophilum (Ab-IF)
- ☐ Chlamydomphila antibody (Ab-IF)
- ☐ Leptospira total-IgG (Ab-IF)
- ☐ Leptospira IgG titer 14 serotype (Agglut.)
- ☐ Lyme-borrelia IgG+IgM (Ab-ELISA)
- ☐ Lyme-borrelia IgG titer (Ab-IF)
- ☐ Lyme-borrela (Immunoblot)

## Microbiology

- ☐ Basic faeces analysis
- ☐ Complete faeces analysis
- ☐ Anaerob culture
- ☐ Detection of Clostridium difficile toxin A and B

### Other faeces tests

- ☐ Larvae isolation
- ☐ Pancreas elastase
- ☐ Parasitological examination (Breza's flotation)
- ☐ Digesting capacity

### Faeces Ag-ELISA tests

- ☐ Giardia + Cryptosporidium
- ☐ Giardia
- ☐ Canine coronavirus
- ☐ Parvovirus
- ☐ Rotavirus

### Faeces PCR tests

- ☐ **DNA-isolation** (DNA)
- ☐ **RNA-isolation** (RNA)
- ☐ Adenovirus (DNA)
- ☐ Coronavirus (RNA)
- ☐ Campylobacter (DNA)
- ☐ Mycobacterium avium subs. Paratuberculosis (DNA)
- ☐ Salmonella (DNA)
- ☐ Trichomonas foetus (DNA)

### Urine analysis

- ☐ Urine culture
- ☐ Physical and chemical examination of the urine, urine sediment analysis
- ☐ Ureaplasma PCR (DNA-isolation + PCR)
- ☐ Urolith analysis
- ☐ Urine protein/creatinine ratio
- ☐ Urine cortisol/creatinine ratio

### Vaginal discharge analysis

- ☐ Vaginal discharge culture
- ☐ Mycoplasma PCR (DNA-isolation + PCR)
- ☐ Vaginal discharge cytology

### Skin scraping analysis

- ☐ Basic skin scraping analysis
- ☐ Complete skin scraping analysis
- ☐ Microscopic analysis of skin scraping (KOH method) (searching for parasites, eggs and fungi)

## Respiratory tract, throat, wound, eye and ear secretions and milk analysis

- ☐ Respiratory tract or throat secretion analysis
- ☐ Wound secretion analysis
- ☐ Eye or ear secretion or milk analysis

## Respiratory tract, nasal and eye secretion serology tests

- ☐ Distemper (Ag-ELISA)
- ☐ Distemper + Adenovirus (Ab-ELISA)

## Respiratory tract secretion PCR tests

- ☐ **DNA-isolation** (DNA)
- ☐ **RNA-isolation** (RNA)
- ☐ Adenovirus (DNA)
- ☐ Chlamidophyla (DNA)
- ☐ Distemper virus (RNA)
- ☐ Mycoplasma (DNA)

## PCR tests (real-time PCR)

- ☐ **DNA-isolation** (DNA)
- ☐ **RNA-isolation** (RNA)

### Canine virological PCR

- ☐ Adenovirus (DNA)
- ☐ Herpesvirus (DNA)
- ☐ Canine coronavirus (RNA)
- ☐ Canine parainfluenza (RNA)
- ☐ Parvovirus (DNA)
- ☐ Distemper (RNA)

### Canine bacteriological PCR

- ☐ Anaplasma phagocytophilum (DNA)
- ☐ Borrelia (DNA)
- ☐ Chlamydia (DNA)
- ☐ Hemobartonella (DNA)
- ☐ Leptospira (DNA)
- ☐ Mycoplasma canis (DNA)
- ☐ Salmonella (DNA)

### Canine parasitological PCR

- ☐ Babesia (tick, blood) (DNA)
- ☐ Erlichia canis (tick, blood) (DNA)
- ☐ Dirofilaria detection (differentiation) (DNA)
- ☐ Haemobartonella (DNA)
- ☐ Hepatozoon canis (blood) (DNA)
- ☐ Leishmania (DNA)
- ☐ Neospora canis (blood) (DNA)

### Feline virological PCR

- ☐ Calicivirus (RNA)
- ☐ FeLV provirus (DNA)
- ☐ FIP (RNA)
- ☐ FIV antigen (RNA)
- ☐ Herpesvirus (DNA)
- ☐ Panleucopenia antigen (DNA)

### Feline bacteriological PCR

- ☐ Anaplasma phagocytophilum (DNA)
- ☐ Bartonella henselae (DNA)
- ☐ Borrelia (DNA)
- ☐ Chlamydia (DNA)
- ☐ Erlichia (DNA)
- ☐ Hemobartonella (DNA)
- ☐ Mycoplasma felis (DNA)
- ☐ Salmonella (DNA)

### Feline parasitological PCR

- ☐ Babesia (DNA)

### Equine PCR

- ☐ Anaplasma phagocytophilum (DNA)
- ☐ Babesia (DNA)
- ☐ Borrelia (DNA)
- ☐ Herpesvirus (DNA)
- ☐ Rhodococcus equi (DNA)
- ☐ Salmonella (DNA)

## Molecular genetic test (hereditary diseases)

### Canine molecular genetics

- ☐ Identity / parentage test
- ☐ • Parent DNA profile (each parent)
- ☐ • Parentage (each offspring)
- ☐ CLAD (Irish setter)
- ☐ B-Locus (Coat Colour brown)
- ☐ E-Locus (Coat Colours Yellow, Lemon, Red, Cream, Apricot)
- ☐ Hair-length - Longhaire/shorthaire
- ☐ Merle-factor
- ☐ Copper toxicosis
- ☐ Cystinuria
- ☐ CSNB/ night blindness
- ☐ Fucosidosis
- ☐ Globoid Zell Leucodystrophy/Krabbe-diseases
- ☐ GM1-Gangliosidosis
- ☐ GRMD (Muscular Dystrophy)
- ☐ Gray Collie Syndrom/Canine Cyclic Neutropenia
- ☐ Hereditary Myopathy (HMLR, CNM)
- ☐ Malignant Hyperthermia (all breeds)
- ☐ MDR1 gene deficiency / ivermectin sensitivity
- ☐ Mucopolysaccharidosis type VII MPS
- ☐ Myotonia congenita
- ☐ Narcolepsia
- ☐ Neuronal Ceroid Lipofuscinosis (NCL)
- ☐ Phosphofructokinase Deficiency (PFKD)
- ☐ Pyruvate kinase deficiency
- ☐ Pred-PRA
- ☐ Progressive Retinal Atrophy (PRA)
- ☐ Pyruvate Dehydrogenase Phosphatase 1 deficiency
- ☐ Von-Willebrand diseases type I.
- ☐ Von-Willebrand diseases type II.
- ☐ Von-Willebrand diseases type III.
- ☐ X-SCID

### Feline molecular genetics

- ☐ Identity / parentage test
- ☐ • Parent DNA profile (each parent)
- ☐ • Parentage (each offspring)
- ☐ Coat Colour Burmese brown (all breed)
- ☐ Coat Colour chocolate (all breed)
- ☐ Coat Colour cinnamon (all breed)
- ☐ Coat Colour variant agouti (all breed)
- ☐ Coat Colour variant Siamese (Point) (all breed)
- ☐ Dilution (all breed)
- ☐ Gangliosidosis GM1/ GM2
- ☐ Glycogen Storage Disease Type IV.
- ☐ Hypertrophic cardiomyopathy (HCM)
- ☐ Hypertrophic cardiomyopathy (HCM-M1) Mutation 1 after Meurs (G --> C)
- ☐ Polycystic kidney disease (PKD)
- ☐ Progressive Retinal Atrophy (rdAC-PRA)
- ☐ Pyruvate kinase deficiency (PK deficiency)

### Equine molecular genetics

- ☐ Identity / parentage test
- ☐ • Parent DNA profile (each parent)
- ☐ • Parentage (each offspring)
- ☐ Coat Colour chestnut (all breeds)
- ☐ Hyperkalemic Period Paralysis (HYPP)
- ☐ Lethal White Foal Syndrome (LWO)
- ☐ Severe Combined Immunodeficiency (SCID)
- ☐ Coat Colour black (agouti) (all breed)
- ☐ Coat Colour cream dilution (all breed)
- ☐ Herlitz junctional epidermolysis bullosa (H-JEB)

## Allergy tests

### Canine allergy tests

- ☐ Total-IgE concentration
- ☐ Polycheck 31 allergens
- ☐ Food allergy 22 IgG
- ☐ Insect panel
- ☐ Sarcoptes (IgG)
- ☐ Staphylococcus (IgG)

### Feline allergy tests

- ☐ Polycheck 31 allergens
- ☐ Food allergy 22 IgG
- ☐ Insect panel

### Equine allergy tests

- ☐ Polycheck 32 allergens

## Autovaccines and hyposensitization solutions

### Starting solution (for 28 weeks, Jhan-Apotheke)

- ☐ Between 1-6 allergens
- ☐ Between 7-12 allergens

### Maintenance solution (for 28 weeks, Jhan-Apotheke)

- ☐ Between 1-6 allergens
- ☐ Between 7-12 allergens

### Autovaccines

- ☐ Papilloma autovaccine 2 portion
- ☐ Papilloma autovaccine 3 portion