

## **Genetic tests in Leonbergers: LPN1 + LPN2 + LEMP**

(April 2017)

For **Leonberger** dogs a total of three genetic disorders were genetically characterized by the Universities of Bern and Minnesota, and genetic tests developed. **A single blood sample per dog** is sufficient to perform the detection of the causative mutations for two forms of *polyneuropathy* (**LPN1** and **LPN2**), diseases affecting the peripheral nervous system, and for *leukoencephalomyelopathy* (**LEMP**), a recessively inherited disorder of the central nervous system.

The genotypes of analysed dogs are reported for each disorder individually as:

**N/N** (clear), **D/N** (heterozygous carrier), and **D/D** (affected).

Further information and breeding recommendations at [www.genetics.unibe.ch](http://www.genetics.unibe.ch)

For genetic testing a **1-5 ml EDTA blood** sample of the animal in question is required. Blood samples should be labelled properly. Please use an individual order form for each single dog.

Please send the samples together with this signed order form in a padded envelope without cooling to:

In case of questions please contact

Prof. Dr. Cord Drögemüller:

e-mail: [cord.droegemueller@vetsuisse.unibe.ch](mailto:cord.droegemueller@vetsuisse.unibe.ch)

phone: **0041 (0)31 631 25 29**

**Institute of Genetics  
Leonberger-Gentest  
Bremgartenstrasse 109a  
CH-3001 Bern**

All three tests for the same dog cost **175 CHF/EUR**. A single test (of choice) costs **100 CHF/EUR**, and two tests (of choice) for the same dog cost **150 CHF/EUR**.

Once the sample arrives our lab will perform the tests and send your results and an invoice with payment instructions (including details as IBAN, BIC) as PDF-file by e-mail. As we cannot run the complete procedure for single individual samples, it may take 2-8 weeks until a result is obtained.

**Test (please check):**                      **LPN1**                      **LPN2**                      **LEMP**

**Name-Kennel**

**Registry ID**

**Chip ID**

**Date of birth**

**male**

**female**

**Owner name**

**Address**

**ZIP/City/Country**

**E-Mail**

**Owner's declaration of consent**

I agree to genetic testing of the animal indicated above. I also agree that the test results and sample material may be used for further scientific research. The leftover sample material will belong to the University of Bern.

**Date**

**Owner's signature**

**Confirmation of correct sampling and animal identity**

**Date**

**Veterinarian (stamp & signature)**