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Meyers-Dauchin
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Report

No.: 1705-W-21473
Date of arrival: 30-05-2017
Date of report: 16-06-2017

Patient identification:	Dog	Female	* 22.02.15
	Border Collie		
Owner / Animal-ID:	Ehlers, Sabine		
Type of sample:	Swab		
Date sample was taken:	23-05-2017		

Name: **Nordevind Lotta (Lotta)**
Stud book no.: **ISDS 337040. LOF 35187/6029**
Chip no.: **250269606381603**
Tattoo no.: **---**

*MDR1 genetic test - PCR

Result: Genotype N/N (+/+)

Interpretation: The examined animal is homozygous for the wildtype-allele. It does not carry the causative mutation for MDR in the ABCB1-gene.

Trait of inheritance: autosomal-recessive

Scientific studies found correlation between the mutation and symptoms of the disease in the following breeds: Australian Shepherd, Border Collie, Elo, German Shepherd, Longhaired Whippet, McNab, Old English Sheepdog, Rough/Smooth Collie, Shetland Sheepdog, Silken Windhound, Wäller, White Shepherd

The DNA-test is run according to the publication of Mealey et al. (2001) "Ivermectin sensitivity in collies is associated with a deletion mutation of the mdr1 gene." and detects the mutation MDR1 nt230 (del4).

MDR1 genetic test carried out according to

sample ID: 1705-W-21473

DIN EN ISO/IEC 17025 in our partnerlaboratory.
Liability for specification of samples (e.g.
name, identity of animal) lies by the sender.

***Collie Eye Anomaly (CEA) - PCR**

Result: Genotype N/N

Interpretation: The examined animal is homozygous for the
wildtype-allele. It does not carry the causative mutation for
CEA in the NHEJ1-gene.

Trait of inheritance: autosomal-recessive

Scientific studies found correlation between the mutation and
symptoms of the disease in the following breeds: Australian
Shepherd, Bearded Collie, Border Collie, Boykin Spaniel, Hokkaido,
Lancashire Heeler, Longhaired Wippet, Nova Scotia Duck Tolling
Retriever, Rough/Smooth Collie, Shetland Sheepdogs, Silken Windhound

Imerslund-Gräsbeck-Syndrome - PCR

Result: Genotype N/IGS

Interpretation: The examined animal is heterozygous for the
causative mutation for IGS in the CUBN-gene.

Trait of inheritance: autosomal-recessive

Scientific studies found correlation between the mutation and
symptoms of the disease in the following breeds: Border Collie

Trapped Neutrophil Syndrome (TNS) - PCR

Result: Genotype N/N

Interpretation: The examined animal is homozygous for the
wildtype-allele. It does not carry the causative mutation for
TNS in the VPS13B-gene.

Trait of inheritance: autosomal-recessive

Scientific studies found correlation between the mutation and
symptoms of the disease in the following breeds: Border Collie

Neuronal Ceroid Lipofuszinosis (NCL) -PCR

sample ID: 1705-W-21473

Result: Genotype N/N

Interpretation: The examined animal is homozygous for the wildtype-allele. It does not carry the causative mutation for NCL in the CL5-gene.

Trait of inheritance: autosomal-recessive

Scientific studies found correlation between the mutation and symptoms of the disease in the following breeds: Border Collie, Australian Cattle Dog

Malignant Hyperthermia (MH) - PCR

Result: Genotype N/N

Interpretation: The examined animal is homozygous for the wildtype-allele. It does not carry the causative mutation for MH in the RYR1-gene.

Trait of inheritance: autosomal-dominant

The current result is only valid for the sample submitted to our laboratory. The sender is responsible for the correct information regarding the sample material. The laboratory can not be made liable. Furthermore, any obligation for compensation is limited to the value of the tests performed.

There is a possibility that other mutations may have caused the disease/phenotype. The analysis was performed according to the latest knowledge and technology.

The laboratory is accredited for the performed tests according to DIN EN ISO/IEC 17025:2005. (except partner lab tests).

*** END of report ***


Hr. Dr. Beitzinger
Dipl.-Biol. Molekularbiologie

*: test performed by partnerlaboratory

sample ID: 1705-W-21473

***** Diagnostic Update Strangles *****

In addition to our PCR panel (simultaneous detection of Strep. equi equi and Strep. equi zooepidemicus, test no. 8171), we now offer a single PCR detection of Streptococcus equi equi (test no. 8556).
Sample material: nasal swab without medium, lavage (guttural pouch), tissue (e.g. lymph node).

charge to /#96071 Madame Sabine Ehlers