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LABOKLIN GmbH&CoKG . Postfach 1810 .DE-97688 Bad Kissingen

Wallwein∩s Kennel
Marita Schmidt
Sotlanda Gaard 1
44192 Alingsaas
Schweden

Report
No.: 1807-W-53157
Date of arrival: 30-07-2018
Date of report: 02-08-2018

Patient identification:	Dog Male	* 19.02.17
	Labrador Retriever	
Owner / Animal-ID:	Schmidt, Marita	
Type of sample:	EDTA-Blood	
Date sample was taken:	26-07-2018	

Name: **Wallwein's Gemtree Bloodstone**
ZB-Nummer: **SE18434/2017**
Chip-Nummer: **968000010580488**
Tattoo-Nummer: **---**

Degenerative Myelopathy - PCR

Result: Genotype N/N (exon 2)

Interpretation: The examined animal is homozygous for the wildtype-allele. It does not carry the high-risk factor for DM in exon 2 of the SOD1-gene.

Trait of inheritance: autosomal-recessive

Please note: In the Bernese Mountain Dog breed the mutation in exon 1 of the SOD1-gene also occurs in correlation with DM.

Exercise Induced Collapse (EIC) - PCR

Result: Genotype N/EIC

Interpretation: The examined animal is heterozygous for the causative mutation for EIC in the DNM1-gene.

Trait of inheritance: autosomal-recessive

sample ID: 1807-W-53157

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Scientific studies found correlation between the mutation and symptoms of the disease in the following breeds: Boykin Spaniel, Chesepeake Bay Retriever, Clumber Spaniel, Curly Coated Retriever, Labrador Retriever, Old English Sheepdog, Pembroke Welsh Corgi and Wirehairede Pointer

Hereditary nasal parakeratosis (HNPK) - PCR

Result: Genotype N/N

Interpretation: The examined animal is homozygous for the wildtype-allele. It does not carry the causative mutation for HNPK in the SUV39H2-gene.

Trait of inheritance: autosomal-recessive

Scientific studies found correlation between the mutation and symptoms of the disease in the following breeds: Labrador Retriever

Dwarfism (Skeletal Dysplasia 2) - PCR

Result: Genotype N/N

Interpretation: The examined animal is homozygous for the wildtype-allele. It does not carry the causative mutation for SD2 in the COL11A2-gene.

Trait of inheritance: autosomal-recessive

Scientific studies found correlation between the mutation and symptoms of the disease in the following breeds: Labrador Retriever

Hereditary myopathy (CNM) - PCR

Result: Genotype N/N

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

Trait of inheritance: autosomal-recessive

Scientific studies found correlation between the mutation and symptoms of the disease in the following breeds: Labrador Retriever

Other forms of myopathy cannot be excluded by this test.

*__prcd-PRA (partner lab) - PCR__

Result: Genotype N/N (A)

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

Trait of inheritance: autosomal-recessive

Scientific studies found correlation between the mutation and symptoms of the disease in the following breeds: Australian cattle dog, American Cocker Spaniel, American Eskimo Dog, Australian Shepherd, Australian Stumpy Tail Cattle Dog, Barbet, Bolognese, Bolonka Zwetna, Chesapeake Bay Retriever, Chihuahua,Chinese Crested, English Cocker Spaniel, English Shepherd, Entlebucher Mountain Dog, Finnish Lapphund, German Spitz, Giant Schnauzer, Golden Retriever, Karelian Beardog, Kuvasz, Lagotto Romagnolo, Lapponian Herder, Labrador Retriever, Markiesje, Norwegian Elkhound, Nova Scotia Duck tolling Retriever, Portugese Water Dog, Poodle, Schipperke, Swedish Lapphound, Silky Terrier, Spanish Water Dog, Swedish Lapphund, Wäller, Yorkshire Terrier.

*__Retinal dysplasia (OSD) - PCR__

Result: Genotype N/N
Interpretation: The examined animal is homozygous for the wildtype-allele. It does not carry the causative mutation for OSD.
Trait of inheritance: autosomal-dominant Scientific studies found correlation between the mutation and symptoms of the disease in the following breeds: Labrador Retriever

45.00 ? patent fee included

__B-locus (Coat color brown) - PCR__

Result: Genotype B/b

Interpretation: The examined animal is heterozygous for the B- and b-allele.

sample ID: 1807-W-53157

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The test detects the alleles B and b (brown),
Allelic series: B dominant over b

Please note:
The genetic test for the B-locus analyses three scientifically known and causative genetic variants for brown coat colour in dogs. Presumably, more genetic variants causing brown fur in French Bulldogs, Yorkshire Terriers and similar small breeds exist.
Those variants cannot be analysed by any genetic test yet.

Sampling:

The following impartial person (veterinarian, breed warden, or similar) signed the form for the sampling and identity check of the animal:

Maria Edshammar

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 ***

Fr.Dipl.-Biol. Bärbel Gunreben
Abt. Molekularbiologie

*: test performed by partnerlaboratory