

LABOKLIN S.L. · Avenida de la Industria 4 · 28108 Alcobendas

HV Atlántico
Paulo Borges
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Portugal

Report No.: **2211-M-24484**
Date of arrival: 25.11.2022
Date of report: 30.11.2022
Testing started: 25.11.2022
Testing completed:
Status of the report: Partial report

Species:	Dog
Breed:	Pastor alemán
Gender:	Male
Name:	Kaisa
Chip No.:	616093901303498
Date of birth / Age:	16.07.2020
Type of sample:	EB (X2)
Sampler:	Paulo Borges
Owner / Animal-ID:	Quinta Silfrohm
IT No. / Report-ID:	---

I locus (pheomelanin intensity) - PCR

Result: Genotype I/I

Interpretation: The examined animal is homozygous for the I allele.

The test detects the alleles I and i.
Allelic series: I dominant over i

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.

Hyperuricosuria - PCR

Result: Genotype N/N

Interpretation: The examined animal is homozygous for the wildtype-allele. It does not carry the causative mutation for HUU in the SLC2A9-gene.

Trait of inheritance: autosomal-recessive

Coat length I (long or short hair) - PCR

HIHd1 SNP G284T: 1/1

Please note:

Further causative mutations for longhaired have been found in the following breeds:

Afghan Hound, Akita Inu, Alaskan Malamute, Chow Chow, Eurasian, French Bulldog, Husky, Prague Rattler, Shar Pei, Samoyed The additional mutations might be responsible for longhair in further breeds.

Interpretation:

The test detects the alleles L (shorthair) and I (longhair) in the FGF5 gene.

Allelic series: L dominant over I

solely genotype L/L: The analysed sample is homozygous for the L-allele for short-haired.

exactly one genotype L/I: The analysed sample is heterozygous for the L-allele and the I-allele. The I-allele for long-haired is forwarded to 50% of the dogs offspring.

multiple Genotypes L/I: The analysed sample is heterozygous for the L-allele and the I-allele on more than one gene-locus. The dog inherits the I-allele for long-haired to it's offspring.

at least one genotype I/I: The analysed sample is homozygous for the I-allele for long-haired.

MDR1 gene variant - 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

Please note: in individual cases, heterozygous dogs can show clinical signs!

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).

Pituitary Dwarfism - PCR

Result: Genotype N/N

Interpretation: The examined animal is homozygous for the wildtype-allele. It does not carry the causative mutation for Dwarfism in the LHX3-gene.

Trait of inheritance: autosomal-recessive

Scientific studies found correlation between the mutation and symptoms of the disease in the following breeds: German Shepherd, Saarlooswolfdog, Czechoslovakian Wolfdog, Tibetan Terrier, White Swiss Shepherd Dog

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 17025:2018. (except partner lab tests).

Classic STR DNA-Profile (ISAG 2006) - PCR

Amelogenin:	pending
AHT 121:	pending
AHT 137:	pending
AHTH 130:	pending
AHTH 171:	pending
AHTH 260:	pending
AHTK 211:	pending
AHTK 253:	pending
CXX 279:	pending
FH 2054:	pending
FH 2848:	pending
INRA 21:	pending
INU 005:	pending
INU 030:	pending
INU 055:	pending
REN 105 L 03:	pending
REN 162 C 04:	pending
REN 169 D 01:	pending
REN 169 O 18:	pending
REN 247 M 23:	pending
REN 54 P 11:	pending
REN 64 E 19:	pending

Nomenclature is based on ISAG comparison test 2006 standards.

The results are only for the sample material submitted to the laboratory. Responsibility for the accuracy of the information on the sample provided lies with the submitter. No warranty obligation for that information is provided. Damage claim liabilities, if legally permissible, are limited to the invoice value of the testing done. We are also only liable for intentional and gross negligence, if legally possible. Additional genetic modifications which might also influence the development of the disease/trait, cannot be ruled out. Testing was carried out according to current general scientific knowledge.

The laboratory is accredited for the tests listed in this report according to DIN EN ISO 17025:2018.

In the requested DNA profile an issued Certificate is included (not for breed classifications) if the sample has been collected by a veterinarian. Please thoroughly verify the animal and owner data provided to you. Any corrections afterward can only be carried out in accordance with prior written confirmation from the veterinarian. Please note that an extra charge will be invoiced separately upon changes to an already issued certificate.

Sampling:

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

Paulo Borges

Estos resultados se basan en el material de muestra enviado a nuestro laboratorio. Este material es adecuado salvo que se indique lo contrario. El remitente es responsable de la exactitud de la información relativa a la muestra. Este informe solo puede transmitirse íntegramente y sin cambios. Hacer lo contrario requiere el permiso por escrito de Laboratorio Veterinario Laboklin S.L.

*: test performed by partner laboratory

Luisa Murcia Giro - Veterinaria

***** END of report *****



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