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Report No.: **2303-M-05520**
Date of arrival: 15.03.2023
Date of report: 21.03.2023
Testing started: 15.03.2023
Testing completed: 21.03.2023
Status of the report: Final report

Species:	Dog
Breed:	Pastor alemán
Gender:	Female
Name:	Akira
Chip No.:	616099000000476
Date of birth / Age:	20.06.2019
Type of sample:	EB(x2)
Owner / Animal-ID:	Quinta Silfrohm
IT No. / Report-ID:	---

Combination German Shepherd and Wolfdog

Parameter	Value
Name:	Akira
Stud book no.:	---
Chip no.:	616099000000476
Tattoo no.:	---

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

Parameter	Value
HIHP1 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 l (longhair) in the FGF5 gene.

Allelic series: L dominant over l

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

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

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

at least one genotype l/l: The analysed sample is homozygous for the l-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

I locus (Pheomelanin intensity)

Parameter	Value
Name:	Akira
Stud book no.:	---
Chip no.:	616099000000476
Tattoo no.:	---

I locus (pheomelanin intensity) - PCR

Result: Genotype I/i

Interpretation: The examined animal is heterozygous for the I and i allele.

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

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).

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.

Luisa Murcia Giro - Veterinaria

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



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