

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

HV Atlántico
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Report No.:	2303-M-05521
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:	Nefra
Chip No.:	616093901754209
Date of birth / Age:	22.08.2021
Type of sample:	EB (x2)
Sampler:	--
Owner / Animal-ID:	Quinta Silfrohm
IT No. / Report-ID:	---

Classic STR DNA-Profile (ISAG 2006) - PCR

breeder association:	--name:	Nefra	
stud book no.:	--tattoo no.:	--chip no.:	616093901754209

Parameter	Value
Name:	Nefra
ZB-Nr.:	---
Tattoo-Nummer:	---
Chip-Nr.:	616093901754209
Amelogenin:	X/X
AHT 121:	102/102
AHT 137:	131/137
AHTH 130:	-/-
AHTH 171:	225/233
AHTH 260:	-/-
AHTK 211:	89/95
AHTK 253:	286/286
CXX 279:	116/118
FH 2054:	152/156
FH 2848:	232/240
INRA 21:	95/95
INU 005:	110/124
INU 030:	146/150
INU 055:	210/214
REN 105 L 03:	227/227
REN 162 C 04:	206/212
REN 169 D 01:	216/216
REN 169 O 18:	162/164
REN 247 M 23:	270/270
REN 54 P 11:	226/238
REN 64 E 19:	155/155

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:

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Combination German Shepherd and Wolfdog

Parameter	Value
Name:	Nefra
Stud book no.:	---
Chip no.:	616093901754209
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
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

I locus (Pheomelanin intensity)

Parameter	Value
Name:	Nefra
Stud book no.:	---
Chip no.:	616093901754209
Tattoo no.:	---

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

K-locus (only the allele KB)

Parameter	Value
Name:	Nefra
Stud book no.:	---
Chip no.:	616093901754209
Tattoo no.:	---

Genetic analysis K-Lokus (PCR)

Result: Genotype ky/ky

Interpretation: The examined animal is homozygous for the ky-allele.

The test detects the alleles KB and ky.
Allelic series: Kb dominant over ky

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).

K locus (brindle)

Please note: LABOKLIN offers no longer shipment of samples for the brindle gene test. There is the possibility to test for the K locus at LABOKLIN, but this test only for the alleles KB and ky. From this result, no statement about the presence or absence of kbr (brindle) allele can be made.

Courier costs

Luisa Murcia Giro - Veterinaria

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



Laboklin App