

Certificate

Dog: Satoris Kaspar

Sample ID: 2203W83090

Breed: German Shepherd
Gender: Male
Date of birth: 01.12.2019

Chip No.: 208250000144393
Stud book No.: LOE2569620
Tattoo No.: ---

PCR - Result

Classic STR DNA-Profile (ISAG 2006)

AHT 121:	100/102	INU 005:	124/126
AHT 137:	131/137	INU 030:	146/146
AHTH 130:	127/127	INU 055:	210/218
AHTH 171:	223/233	REN 105 L 03:	241/241
AHTH 260:	238/242	REN 162 C 04:	208/212
AHTK 211:	89/89	REN 169 D 01:	212/216
AHTK 253:	288/288	REN 169 O 18:	168/168
CXX 279:	116/126	REN 247 M 23:	270/270
FH 2054:	152/164	REN 54 P 11:	234/234
FH 2848:	240/240	REN 64 E 19:	155/155
INRA 21:	95/95		

Nomenclature is based on ISAG comparison test 2006 standards.

Bad Kissingen, 17.03.2022

Nur gültig mit Originalsiegel
Only valid with original seal.



LABOKLIN
LABOR FÜR KLINISCHE DIAGNOSTIK GMBH & CO. KG
Steubenstr. 4 • 97688 Bad Kissingen
Tel. (09 71) 7 20 20 • Fax (09 71) 6 85 46
Fr. Dipl.-Biol. Bärbel Gunreben



Deutsche
Akkreditierungsstelle
D-PL-13186-01-01
D-PL-13186-01-02

Steubenstraße 4 • 97688 Bad Kissingen • Tel.: 09 71/72020 • Fax: 09 71/68546 • e-Mail: info@laboklin.com • USt-ID DE206897824
Geschäftsführender Gesellschafter: LABOKLIN Verwaltungs-GmbH • RG. Schweinfurt HRA 3631

Die Verantwortung für Probenentnahme und -identität liegt beim Einsender. Gewährleistungsverpflichtungen können nicht übernommen werden. Schadensersatzverpflichtungen sind, soweit gesetzlich zulässig, auf den Rechnungswert der durchgeführten Untersuchung/en beschränkt.
The liability for sampling procedure and proof of identity lies with the sender. Warranty claims are not accepted. Damage claims are restricted to the amount of the invoice

LABOKLIN GmbH & Co. KG, Steubenstraße 4, 97688 Bad Kissingen

Sr.	Report No.:	2203-W-83090
Goncalo Guerreiro	Date of arrival:	05.03.2022
Herdade Bonanza Estrada da Barragem Sitio	Date of report:	16.03.2022
Da Moira 491F	Testing started:	05.03.2022
8600-251 Lagos	Testing completed:	16.03.2022
Portugal		

Species:	Dog
Breed:	German Shepherd
Gender:	Male
Name:	Satoris Kaspar
Stud book No.:	LOE2569620
Chip No.:	208250000144393
Date of birth / Age:	01.12.2019
Type of sample:	Swab
Date sample was taken:	28.02.2022
Sampler:	Dra. Sofia Margarida Pimenta
Owner / Animal-ID:	Guerreiro, Goncalo
IT No. / Report-ID:	---

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).

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.

Coat length I (long or short hair) - PCR

Parameter	Value
HIHd1 SNP G284T:	L/L

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.

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.

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:	Y/X
AHT 121:	100/102
AHT 137:	131/137
AHTH 130:	127/127
AHTH 171:	223/233
AHTH 260:	238/242
AHTK 211:	89/89
AHTK 253:	288/288
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INRA 21:	95/95
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REN 169 D 01:	212/216
REN 169 O 18:	168/168
REN 247 M 23:	270/270
REN 54 P 11:	234/234
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:

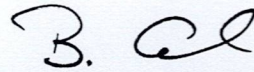
Dra. Sofia Margarida Pimenta

Sample ID: 2203-W-83090

These results are based on the sample material submitted to our laboratory.

This was suitable if not stated otherwise. The submitter is responsible for the accuracy of the information regarding the sample. This report can only be transmitted in toto and unchanged. Doing otherwise requires written permission from Laboklin GmbH & Co. KG.

LABOKLIN is an accredited laboratory according to DIN EN ISO/IEC 17025:2018, DAkkS No. D-PL-13186-01-01 and D-PL-13186-1-02. The accreditation applies to all test procedures listed in the accreditation certificate.



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

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



***** News from the laboratory *****

Autumn is diarrhoea season: Up to 70% of all immune defence cells are located in the intestine. Immunodeficiency is therefore often associated with intestinal dysbiosis. The analysis of dysbiosis helps to treat it in a targeted way. It now includes an intestinal score, which allows for an overall assessment! Available for dogs, cats and - new - for horses, too.