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Sluisbamd 88
3550 Heusden-Zolder
Belgien

Report
No.: 2001-N-00228
Date of arrival: 07-01-2020
Date of report: 09-01-2020

Patient identification:	Dog female	* 10.11.17
	Rhodesian Ridgeback	
Owner / Animal-ID:	Calatabiano, Roberto	
Type of sample:	EDTA/BfS/Swabs	
Date sample was taken:	06-01-2020	

Name: **Harmakhis Wisdom Absolute Ona**
Stud book no.: **ROI 18/21883**
Chip no.: **380260100639326**
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.

Hemophilia B (Factor IX) - PCR

Result: Genotype female X(N)/X(N), male X(N)/Y

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

Trait of inheritance: X chromosomal-recessive

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Scientific studies found correlation between the mutation and symptoms of the disease in the following breeds: Rhodesian Ridgeback

Juvenile Myoclonic Epilepsy (JME)

Result: Genotype N/N

Interpretation: The examined animal is homozygous for the wildtype-allele. It does not carry the causative mutation for JME in the DIRAS1-gene.

Trait of inheritance: autosomal-recessive

Scientific studies found correlation between the mutation and symptoms of the disease in the following breeds: Rhodesian Ridgeback

D-locus D1 (dilution)

Result: Genotype D/D

Interpretation: The examined animal does not possess the d1 allele. If no other d variant is present, the examined animal is homozygous for the D-allele.

The test detects the alleles D and d1
Allelic series: D dominant over d1

Please note: Additional d variants have to be considered to fully evaluate the characteristic of dilution.

Please note:

A further causative mutation for dilution (d2) has been found in the foll
Chow Chow, Sloughi, Thai Ridgeback
The additional mutation might be responsible for dilution in further bree

B-locus (brown, chocolate, liver(nose))

The genetic analysis of the B-locus includes the four recessive, causative variants described so far as the alleles bd, bc, bs, and b4 as well as the dominant form as allele B.

sample ID: 2001-N-00228

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Variant bd
Result for bd: Genotype B/B
Interpretation: No bd–allele was found for this sample.

Variant bc
Result for bc: Genotype B/B
Interpretation: No bc–allele was found for this sample.

Variant bs
Result for bs: Genotype B/bs
Interpretation: One bs–allele was found for this sample.
The animal is heterozygous for this causative variant.

Variant b4
Result for b4: Genotype B/B
Interpretation: No b4–allele was found for this sample.

Allelic series: B dominant over bd, bc, bs and b4

If the animal is homozygous for the causative variant, black pigment (eumelanin) is lightened, and the animal appears brown in the areas that were originally black.
If the animal is heterozygous for several causative variants, it is not possible to determine to what degree these will influence the eumelanin. Dark areas may be black or brown.

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.

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).

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*** END of report ***

Drs. J.Vis