

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

Mr  
Antonio Bustorff  
Pedro de sintra no. 121  
2750-186 Cascais  
Portugal

**Report No.:** **2311-W-83238**  
Date of arrival: 20.11.2023  
Date of report: 22.11.2023  
Testing started: 20.11.2023  
Testing completed:  
Status of the report: Partial report

Species:	Dog
Breed:	Rhodesian Ridgeback
Gender:	Female
Name:	OLENA
Stud book No.:	2022/243
Chip No.:	620094100246014
Date of birth / Age:	16.03.2022
Type of sample:	Swab
Date sample was taken:	16.11.2023
Sampler:	Dra Catarina Gomes Cardoso
Owner / Animal-ID:	Bustorff, Antonio
IT No. / Report-ID:	---

## **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

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) - PCR**

Result for d1: Genotype N/N (before D/D)

Interpretation: No d1-allele was found for this sample.

The overall genotype for the D-locus-complex can only be deduced if all known variants on the D-locus (d1, d2 and d3) are analysed. Some of these alleles only exist in specific breeds.

Please note: The nomenclature of the results has been changed due to harmonizing efforts for genetic tests.

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

This genetic analysis of the B-locus includes the three variants bd, bc and bs described for all breeds so far, as well as the corresponding wildtypes as allele N.

### **Variant bd**

Result for bd: Genotype N/N (before B/B)

Interpretation: No bd-allele was found for this sample.

### **Variant bc**

Result for bc: Genotype N/bc (before B/bc)

Interpretation: One bc-allele was found for this sample. The animal is heterozygous for this variant.

### **Variant bs**

Result for bs: Genotype N/N (before B/B)

Interpretation: No bs-allele was found for this sample.

When one of the variants is found homozygous, dark pigment (eumelanin) changes in colour accordingly. When several variants of the B-locus are found in heterozygous state, it is not possible to directly determine the influence on the eumelanin.

The overall genotype for the B-locus-complex can only be deduced if all known variants on the B-locus (bd, bc, bs, b4 and be) are analysed. Some of these alleles only exist in specific breeds.

Please note: The nomenclature of the results has been changed due to harmonizing efforts for genetic tests.

## **Hereditary Deafness/Hearing Loss ((E)OAD) - PCR**

pending

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).

## **Sampling:**

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

**Dra Catarina Gomes Cardoso**

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 officially 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. Nadine Gaenstaller  
Abt. Molekularbiologie

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



Laboklin App

## **\*\*\* News from the laboratory \*\*\***

For cats, we now offer PCR detection of *Demodex gato* (service ID 8866). In contrast to other *Demodex* mites found in cats, *D. gato* is primarily pathogenic. Clinically, infections are mainly characterised by pruritic lesions and self-induced alopecia. Several superficial skin scrapings are the most suitable sample material.