

Customer: Jan Novák, Dlouhá 1, 30000 Plzeň, Czech Republic

Sample:

Sample: 21-12345

Date received: 01.02.2021

Sample type: blood

Information provided by the customer

Name: Lassie DEMO

Breed: Plemeno

Tattoo number: 1392013

Microchip: 123 456 789 012 345

Reg. number: REGQ12345

Date of birth: 1.1.2020

Sex: female

Date of sampling: 01.02.2021

The identity of the animal has been checked.

Result: S/s

Explanation

Presence or absence of SINE insertion (short interspersed nucleotide element) in canine MITF gene was tested. The SINE insertion was **only found** in dogs **presenting the extreme white or piebald phenotypes (s/s)**, and was absent in Irish-spotted **and solid dogs (S/S)**.

The s-allele causing extreme white coloring (s^w) and piebald (s^p) is inherited incompletely dominant. One copy of the s-allele **results** in a dog with **less white markings** (called the "trim" pattern). Homozygous status (s/s) causes piebald **or extreme white coat color**.

- S/S → solid color
- S/s → dog carries **one SINE inserted allele** (s^w or s^p) → less white markings, the s^w and s^p alleles cannot be distinguished by this test
- s/s → the individual is homozygous for SINE insertion → extremely white s^w/s^w or piebald s^p/s^p coat color appears

Method: SOP176-MITF-SINE, ASA-PCR

Date of issue: 06.02.2021

Date of testing: 01.02.2021 - 06.02.2021

Approved by: Mgr. Martina Šafrová, Laboratory Manager



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