

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: EH/N

Explanation

Presence or absence of c.250G>A in MC1R gene was tested – that is E^H variant of locus E. Locus E^H is responsible for the specific sable color in American and English Cocker Spaniels. Dogs carrying c.250AA genotype have partially inhibited expression of eumelanin pigment. The coat color is paler and it can be observed the gradual transition of colors from golden to brown with brown color covering dog's head top and back. Locus E hierarchy expression is as follows: $E^M > E^G > E > E^H > e$. This test only gives information about the E^H variant, not about E locus as a whole.

Possible results:

- E^H/E^H : the individual carries two E^H alleles, it is sable colored.
- E^H/N : The individual carries one E^H allele. Allele N means any other allele of the E locus except E^H . For example, the combination of E^H/E means sable carrier, the combination of E^H/e means gold carrier.
- N/N: The individual does not have E^H variant.

Method: SOPAgriseq_canine, ngs

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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