

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: Mutation was not detected (N/N)

Explanation

The presence or absence of the c.1107del mutation in the CNP gene, which causes lysosomal storage disease (LSD) in Dalmatians, was examined. LSD is characterized by the accumulation of autofluorescent inclusions within lysosomes in the cerebral cortex, cerebellum, optic nerve, and cardiac muscle. In Dalmatians, the first neurological signs typically appear at approximately 18 months of age and progressively worsen over time. Clinical signs include anxiety, restlessness, circling behavior, hypersensitivity, cognitive decline, sleep disturbances, loss of coordination, urinary and fecal incontinence, and visual impairment.

The mode of inheritance is described as autosomal incompletely dominant with variable expressivity. Heterozygous individuals (N/P genotype) that have inherited the mutation from only one parent may exhibit milder, later-onset, or variable clinical signs. In contrast, homozygous individuals (P/P genotype) that have inherited the mutation from both parents typically develop a more severe or earlier-onset form of the disease. Individuals with the N/N genotype are not at risk of developing LSD.

Method: SOP188-MPS-canine, MPS

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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