

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)**Legend:** N/N = wild-type genotype. N/P = carrier of the mutation. P/P = mutated genotype (individual will be most probably affected with the disease). (N = negative, P = positive)**Explanation**

Presence or absence of c.597G>A mutation in CTSD gene causing NCL10 in American Bulldogs breed was tested. Neuronal Ceroid Lipofuscinosis type 10 (NCL10) is an inherited neurodegenerative disease characterised by accumulation of autofluorescent lipopigments (ceroid and lipofuscin) within the cells of the nervous system. Due to accumulation of lipopigments, the transfer of important information from the brain to muscles stops progressively. In affected dogs, progressive ataxia and hypermetria of hind limbs and forelimbs develop. The clinical signs of NCL10 occur first between the ninth month and three years of age and get progressively worse.

Mutation that causes NCL10 in American Bulldogs is inherited as an autosomal recessive trait. That means the disease affects dogs with P/P genotype only. The dogs with N/P genotype are considered carriers of the disease (heterozygotes). In offspring of two heterozygous animals following genotype distribution can be expected: 25 % N/N, 25 % P/P and 50 % N/P.

Method: SOPAgriSeq_canine, ngs, accredited method

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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