

Customer: Dušan Kollárik, Belá 33, 03811 Belá-Dulice, Slovak Republic

Sample:

Sample: 25-05401

Date received: 04.03.2025

Sample type: buccal swab

Information provided by the customer

Name: Heidi Bella Aurea

Breed: Golden Retriever

Microchip: 941 000 026 557 633

Reg. number: SPKP 4826/24

Date of birth: 17.6.2023

Sex: female

Date of sampling: 28.02.2025

The identity of the animal has been checked by MVDr. Juraj
Chorváth, 0011

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 mutation c.934_935delAG mutation in CLN5 gene causing Neuronal Ceroid Lipofuscinosis (NCL) in Golden Retrievers was tested. NCL is manifested by accumulation of lipopigments (coroid and lipofuscin) in the lysosomes. The clinical symptoms are progressive neurological signs including disorientation, worsening of motor functions, anxiety, aggression, seizures and problems with food intake. Usually visual impairment and loss of vision occur as well. The onset of the disease and its clinical course vary substantially between breeds. The first signs occur most often after 15 month of age. The degree of neurodegeneration increases with the age and all affected dogs develop psychological abnormalities and spasms. Changes in gait and posture – stumbling, leg stiffness, tremor - can be observed as well.

Mutation that causes NCL in Golden Retrievers is inherited autosomally recessively which means that the disease develops only in those dogs who inherit mutated allele from both parents; 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: SOP171-NCL5-GR, fragment analysis

Date of issue: 20.03.2025

Date of testing: 04.03.2025 - 20.03.2025

Approved by: Mgr. Martina Šafrová, Laboratory Manager



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