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genetic laboratory

Result certificate #319826

Detection of c.1579G>A mutation in PLA2G2 gene causing NAD in Pappilons and Phalene

Customer: Serhii Korenchenko, Mladé gardy 2781, 8, 434 01 Most, Czech Republic
Sample:
Sample: 25-33529
Date received: 02.01.2026
Sample type: buccal swab

Information provided by the customer
Name: DANALIYA FLY FINKI
Breed: Papillon
Microchip: 900 233 001 513 475
Reg. number: CMKU/PAP/6014/-25/24
Date of birth: 22.05.2024
Sex: female
Date of sampling: 22.12.2025
The identity of the animal has been checked by MVDr. Alice Šimková, KVL 7073

Result: Mutation was not detected (N/N)

Explanation

Presence or absence of c.1579G>A mutation in PLA2G2 gene causing Neuroaxonal dystrophy (NAD) in Papillon and Phalene breed was tested. NAD belongs to the group of rare inherited neurodegenerative diseases. The first symptoms appear around 3 months of age. There can be observed problems with gait, even complete limb paralysis, loss of coordination, head tremor or intention tremor, inability to stand. Further neurological symptoms occur from the 6 month of age, such as blindness, strabismus, loss of reaction to threat, difficulty swallowing and progressive celebellar atrophy.

Mutation that causes NAD 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), they are healthy but they can transmit the mutation on their offspring. Dogs with N/N genotype are without risk of NAD. In offspring of two heterozygous animals following genotype distribution can be expected: 25 % N/N (healthy non-carriers), 50 % N/P (healthy carriers) and 25 % P/P (affected).

Method: SOP188-MPS-canine, MPS, accredited method

Date of issue: 08.01.2026
Date of testing: 02.01.2026 - 08.01.2026
Approved by: Mgr. Martina Šafrová, Laboratory Manager

verified and certified document GENOMIA genetic laboratory

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