GENOMIA
genetic laboratory

Result certificate #012345

Detection of c.1315G>A mutation in LPL gene causing Hyperlipoproteinaemia in cats

Customer: Jan Novák, Dlouhá 1, 30000 Plzeň, Czech Republic
Sample:
Sample: 08-12346
Date received: 01.01.2008
Sample type: buccal swab

Information provided by the customer
Name: Madame Théophile DEMO
Breed: Persian cat
Date of birth: 31.12.1909
Reg. number: (CZ)ABCD EF 123/45/XYZ
Microchip: 123 456 789 012 345
Sex: female
Date of sampling: 01.01.2008
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.1315G>A mutation in LPL gene causing Hyperlipoproteinaemia in cats was examined. Hyperlipoproteinemia is characterized by elevated concentrations of lipids or lipoproteins (especially cholesterol and triglycerides) in the blood. In cats, it is manifested by dysfunction of the digestive system (vomiting, diarrhoea, lack of appetite, abdominal pain), impaired vision and neurological problems (peripheral neuropathy).

Mutation that causes Hyperlipoproteinaemia is inherited autosomally recessively which means that the disease develops only in those cats who inherit mutated allele from both parents; disease affects cats with P/P genotype only. The cats 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_feline, MPS

Date of issue: 06.01.2008
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Approved by: Mgr. Martina Šafrová, Laboratory Manager

verified and certified document
GENOMIA genetic laboratory

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