

Result certificate #012345

Detection of c.7384G>C mutation in ALMS1
gene causing HCM4 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 catDate 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.7384G>C mutation in ALMS1 gene causing Hypertrophic Cardiomyopathy (HCM4) in cat breeds like American Shorthair, Exotic Shorthair, Munchkin, Scottish Fold and Sphynx was tested. In HCM4, there is thickening (hypertrophy) of the heart muscle, especially of the left ventricular wall. Clinical symptoms include breathing difficulties, coughing, lethargy and weakness.

Mutation that causes HCM4 is inherited probably 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



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