GENOMIA
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Result certificate #012345

Detection of c.816+1G>A mutation in KRT71 gene causing Hypotrichosis in Sphynx

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)

Explanation

Presence or absence of c.816+1G>A mutation in KRT71 gene causing Hypotrichosis in Sphynx cats was examined. Hypotrichosis means a reduced amount of hair, in sphynx cats, there is an almost complete loss of hair. The absence of hair hinders thermoregulation, making Sphynx cats sensitive to temperature extremes. Their skin is also greasier and more prone to carrying skin yeasts. Tactile whiskers are short and curled.

Mutation that causes Hypotrichosis is inherited autosomally recessively. Hypotrichosis occurs when an individual inherits the nakedness trait (HR) from each parent; the genotype of a naked individual is HR/HR. Individuals with a genetic test result of N/HR are carriers of nakedness. Individuals with a result of N/N do not carry nakedness. A naked individual may also carry the HR/DR genotype – the DR allele is not detected by this test.

Method: SOPAgriseq_feline, MPS

Date of issue: 06.01.2008
Date of testing: 12.06.2008 - 06.01.2008
Approved by: Mgr. Martina Šafrová, Laboratory Manager

verified and certified document
GENOMIA genetic laboratory

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