GENOMIA
genetic laboratory

Result certificate #012345

Detection of retroviral insertion FERV1 in KIT gene causing dominant white and white spotting 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.

SAMPLE

Result: W/N

Explanation

Presence or absence of insertion FERV1 in KIT gene causing dominat white and white spotting in cats was tested. A full insertion of FERV1 results in white spotting (allele w^S) while a partial retroviral insertion results in complete lost of pigment and dominant white (W). FERV1 insertion causes varying degrees of hearing impairment and iris hypopigmentation. Variant W is inherited autosomally dominant, if a offspring inherits this variant, white phenotypic expression occurs.

Results:
- N/N – no copy of the dominant white or white spotting; coat is fully pigmented
- W/W – 2 copies of the dominant white; cat is white
- W/N – 1 copy dominant white; cat is white
- W/w^S – 1 copy of dominant white and 1 copy of white spotting; cat is white
- w^S/w^S – 2 copies of white spotting; coat is white spotted with variable distribution of white areas on the body
- w^S/N – 1 copy of white spotting, coat is white spotted with variable distribution of white areas on the body

Method: SOP176-locW, ASA-PCR

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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