

Sample

Sample: 08-12345
Name: Lassie DEMO
Breed: ---
Tattoo number: 1392013
Microchip: 123 456 789 012 345
Reg. number: REGQ12345
Date of birth: 31.12.1909
Sex: female
Date received: 25.11.2008
Sample type: blood
The identity of the animal has been checked.

Customer

Jan Novák
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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 insertion of retrotransposon in GRM1 gene causing neonatal ataxia (BNAt - Bandera's neonatal ataxia) in Coton de Tulear was tested. BNAt is a neurological symptom consisting of a lack of normal coordination of movements beginning in puppies after birth.

Mutation that causes BNAt in Coton de Tulear 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). In offspring of two heterozygous animals following genotype distribution can be expected: 25 % N/N, 25 % P/P and 50 % N/P.

Method: SOP176-BNAt, ASA-PCR, accredited method

Sensitivity (probability of correct identification of the defective form of the gene in heterozygous or mutated homozygous) is higher than 99%. Specificity (probability of correct identification of the normal form of the gene in a normal homozygous or heterozygous) is higher than 99%.

Report date: 25.11.2008

Responsible person: Mgr. Martina Šafrová, Laboratory Manager



Genomia is accredited according to ISO/IEC 17025:2005 under #1549.

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