PRCDTEST.COM

Result report certificate
Detection of mutation in dog PRCD gene

Customer
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Sample
Sample: 59286
Name: Kate Diamond in the heart
Breed: Golden Retriever
Microchip: 900 182 001 000 442
Reg. number: ČLP/GR/19246
Date of birth: 8.2.2016
Sex: female
Date received: 03.11.2017
Sample type: blood
The identity of the animal has been checked by MVDr. Jana Kalendová

Result: N/N

N/N clear (normal homozygote)

N/P carrier (heterozygote)

P/P affected (mutated homozygote)

Explanation

Presence or absence of mutation 1298G>A in PRCD gene in CFA9 (canine chromosome 9) has been examined. This mutation induces PRA-prcd (Progressive Retinal Atrophy form Progressive Rod Cone Degeneration). Disease causes degeneration of retinal cells. Firstly, rods are affected and night blindness develops in the animal. Later, cones degenerate. That results in complete blindness of the animal. The age of onset of disease varies, but, generallly, it cannot be recognized before the adulthood of the animal.

Mutation that causes Prcd-PRA is inherited as an autosomal recessive trait. That means the disease trait. That means the affects dogs whith 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 (healthy non-carriers), 25% P/P (affected), and 50% N/P (healthy carriers).

The PRA-prcd mutation was found in following dog breeds: Am. Eskimo Dog, Austr. Cattle Dogs, Austr. Shepered (normal, mini), Austr. Stumpy Tail Cattle Dog, Retriever (Chesapeake Bay, Golden, Labrador, Nova Scotia Duck Tolling), Chinese Crested Dog, Cockapoos, Cocker Spaniel (Am., Engl.), Basenji, Poodles (Dwarf, Miniature, Toy), Entlebucher Mountain Dog, Lapphund (Swedish, Finnish), Goldendoodle, Karelian Bear Dog, Kuvasz, Magyar Vizsla, Labradoodle, Lapponian Herder, Norwegian Elkhound, Papillon, Water Dog (Portuguese, Spanish), Terrier (Silky, Yorkshire). With lower probability, other breeds can also suffer from PRA-prcd.

PRCD CERTIFICATE TEST

Report date: 07.11.2017
Responsible person: Mgr. Martina Šafrová, Laboratory Manager

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