PRCDTEST.COM

Result report certificate
Detection of mutation in dog PRCD gene

Customer
Gerda van Empel
Dollemansstraat 2
7223 KG BAAK
Netherlands

Sample
Sample: 52014
Name: Magical Hat Xilander
Breed: English Cocker Spaniel
Microchip: 968 000 010 509 544
Reg. number: 3051496
Date of birth: 19-11-2015
Sex: male
Date received: 27.02.2017
Sample type: buccal swab

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: 03.03.2017
Responsible person: Mgr. Markéta Dajbychová, Deputy Laboratory Manager

DAJBYCH SLOVAKIA, s.r.o., Madridská 3, 040 13 Košice, Slovak Republic, ICO: 36186058, www.prcdtest.com, e-mail: lab@prcdtest.com