

Result certificate #035289:

Detection of c.1473+1G>A mutation in ADAMTS17 gene causing PLL disease in several dog breeds by HRMA

Sample

Sample: 13-16127
Name: BLACK PEARL NAKED OL-A-MI MORAVIA
Breed: American Hairless Terrier
Microchip: 972000010017311
Date of birth: 12.5.2010
Sex: female
Date received: 20.06.2013
Sample type: blood
Sample certified by Vet/Tech or witness.

Customer

Lucie Příkladová
Stařechovice 69
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Result: Mutation was not detected (N/N)

Explanation

Presence or absence of c.1473+1G>A mutation in ADAMTS17 gene causing PLL disease (primary lens luxation) in different dog breeds was tested. PLL is an eye defect connected with dislocation of the lens caused by defective fixation of the lens zonules or suspensory fibres. Disease occurs dogs of different age, even results in blinding.

The general inheritance of PLL is considered autosomal recessive and therefore the disease does not develop in the most carriers of ADAMTS17-mutation during their lives. Nevertheless, for carriers of c.1473+1G>A mutation the risk of development of PPL is higher. The risk depends on the specific breed or genetic background of the individual dogs. The genetic examination performed neither excludes the possibility of other PLL-form nor reveals the development of the disease in carriers of the mutation.

Method: SOP106, accredited method

Report date: 24.06.2013

Responsible person: Mgr. Martina Šafrová, Laboratory Manager

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