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Result certificate #117205

Detection of p.Gly96Glu mutation in cFVII gene causing Factor VII deficiency in several dog breeds

Sample
Sample: 18-08120
Name: Hasco vom Ammeler Forst
Breed: Beagle
Microchip: 756 097 200 034 766
Reg. number: 675986
Date of birth: 10.09.2008
Sex: male
Date received: 28.03.2018
Sample type: blood
The identity of the animal has been checked by Dr. med. vet. Fabienne Künzli

Customer
Andrea Wanner
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Result: Mutation was detected in heterozygous status (N/P)

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 p.Gly96Glu mutation in cFVII gene causing Factor VII (FVII) deficiency in several dog breeds (Beagle, Airedale Terrier, Alaskan Klee Kai, Giant Schnautzer and Scottish Deerhound) was tested. Factor VII is a vitamin K-dependent glycoprotein that plays a pivotal role in the initiation of coagulation. The deficiency of FVII affects the blood coagulation and causes excessive bleeding in case of an injury or other intervention in the organism.

Mutation that causes FVII deficiency 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: SOP172-FVII, direct DNA sequencing

Report date: 04.10.2018
Responsible person: Mgr. Markéta Dajbychová, Deputy Laboratory Manager

verified and certified document
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