

Result certificate #029911:

Detection of c.660C>T mutation in ADAMTSL2 gene causing Musladin-Lueke syndrom in Beagle breed

Sample

Sample: 13-03506
Name: Ema Mantis
Breed: Beagle
Reg. number: 5624
Microchip: 203098100233314CZE
Date of birth: 10.2.2008
Sex: female
Date received: 12.02.2013
Sample type: buccal swab
Sample certified by Vet/Tech or witness.

Customer

Taťána Letáčková
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74255 Albrechtičky
Czech Republic

Result: Mutation was not detected (N/N)

Explanation

Presence or absence of c.660C>T mutation in exon 7 of ADAMTSL2 gene causing Musladin-Lueke syndrom (MLS) in Beagle breed was tested. ADAMTSL2 gene is coding the fibrillin-1 protein which forms the main part of the tissue microfibriles. MLS is an inherited disease that affects development and structure of connective tissues and manifests itself by extensive skin and joint fibrosis and affects even heart.

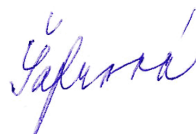
Mutation that causes MLS in Beagle breed is inherited as an autosomal recessive trait. That means the disease affects dogs with P/P (positive/positive) genotype only. The dogs with N/P (negative/positive) genotype are considered carriers of the disease (heterozygotes). In offspring of two heterozygous animals following genotype distribution can be expected: 25 % N/N (healthy non-carriers), 25 % P/P (affected), and 50 % N/P (healthy carriers).

Method: SOP80

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: 19.02.2013

Responsible person: Mgr. Martina Šafrová, Laboratory Manager



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