GENOMIA
genetic laboratory

Result certificate #012345

Detection of c.504_505insC mutation in SERPINB11 gene causing Hoof Wall Separation Disease in Connemara pony

Customer: Jan Novák, Dlouhá 1, 30000 Plzeň, Czech Republic
Sample:
Sample: 21-12351
Date received: 01.02.2021
Sample type: horsehair

Information provided by the customer
Name: Black And White DEMO
Breed: Český teplokrevník
Date of birth: 25.11.2016
Reg.number : DE-123-456-789-012
Tattoo: 123456789012345
Sex: male
Date of sampling: 01.02.2021
The identity of the animal has been checked by MVDr. Veselý Josef.

Result: N/HWSD

Explanation

Presence or absence of c.504_505insC mutation in SERPINB11 gene causing Hoof Wall Separation Disease (HWSD) in Connemara pony was tested. In affected horses, the dorsal hoof wall breaks and separates. Clinical signs may vary between individuals. The defect affects all 4 hooves, but the degree to which they are affected can vary. Clinical signs appear during the first 6 months of the affected horse's life.

Mutation that causes HWSD is inherited as an autosomal recessive trait. That means the disease affects horses with HWSD/HWSD genotype only. The horses with N/HWSD 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 % HWSD/HWSD (affected), and 50 % N/HWSD (healthy carriers).

Method: SOP171-HWSD, fragment analysis

Date of issue: 06.02.2021
Date of testing: 01.02.2021 - 06.02.2021
Approved by: Mgr. Martina Šafrová, Laboratory Manager

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