

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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