



## GENETIC CERTIFICATE

**Ms Aslaug TEISLEV**

Stationsvej 5  
5500 Middelfart  
DENMARK

Name : **Aslaug's Scarlett O'hara**

Breed : **Bernese Mountain Dog**

ID Number : **208 210 000 542 581**

Pedigree Number : **DK 02511/2016**

Gender : **Female**

Birth date : **05/02/2016**

Owner :

**TEISLEV Aslaug**

5500 Middelfart (DK)

Customer Nb : C93022

Sample Number : **548 089** (Authenticated)

Sample type : Blood sample

Sample date : 26/09/2017

Request date : 02/10/2017

Sampler veterinarian :

**CORFITZEN Jens**

5500 Middelfart (DK)

Official number : **405**

File Nu. : 137 654

Animal Number : 166 114

Result code : 282779

### Degenerative Myelopathy (DM-sod1a)

Result : **Heterozygous**

Interpretation : The animal has 1 normal copy and 1 defective copy of the SOD1A allele. The animal will not develop the form of Degenerative Myelopathy associated to this single mutation. Statistically the animal will transmit the genetic anomaly to 50% of its progeny. An another DNA test (DM-sod1b) is available to detect an other form of Degenerative Myelopathy in this breed. Dogs heterozygous for both SOD1A and SOD1B may also develop a Degenerative Myelopathy associated to this double heterozygosity.

Mathilde Verdier  
Genetic Analyst

Caroline Dufaure De Citres  
Genetic Analyst

Result established on 05/10/2017

Certificate issued on 05/10/2017

#### Explanation

This test is specific to Degenerative Myelopathy in Bernese Mountain dog. This disorder is inherited as an autosomal recessive trait. This test relies on the detection of the c.118G>A mutation in the SOD1 gene (Awano et al. 2009). This test can not be used to detect other forms of degenerative myelopathy, nor other hereditary forms of neurological diseases, nor other neurological disorders acquired during the life span of the animal. An another DNA test (DM-sod1B) is available to detect an other form of Degenerative Myelopathy in this breed

The laboratory ANTAGENE puts at its disposal all resources and means necessary with regards to reliability, quality assurance, and traceability in order to guarantee a result of 99% accuracy.