



GENETIC CERTIFICATE

Ms Helle SINCLAIR

Fjellerup Bygade 36
8585 Glesborg
DENMARK

Name : **Staugaard' Anemone Filone**

Breed : **Bernese Mountain Dog**

ID Number : **208 213 990 283 791**

Pedigree Number : **DK08734/2016**

Gender : **Female**

Birth date : **19/04/2016**

Owner :

SINCLAIR Helle

8585 Glesborg (DK)

Customer Nb : C75415

Sample Number : **548 551** (Authenticated)

Sample type : Blood sample

Sample date : 27/10/2017

Request date : 02/11/2017

Sampler veterinarian :

BONNERUP Anja

8961 Allingbro (DK)

Official number : **4286**

File Nu. : 138 976

Animal Number : 154 068

Result code : 286904

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.

Estelle Sauvegrain
Genetic Analyst

Aurélie Michel
Genetic Analyst

Result established on 10/11/2017

Certificate issued on 10/11/2017

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.