



GENETIC CERTIFICATE

Ms Erika BROMOSE

Dystedvej 24
4684 Holmegaard
DENMARK

Name : **Fruenshøj's Be Upsi The Blossom**

Breed : **Bernese Mountain Dog**

ID Number : **208 250 000 104 101**

Pedigree Number : **DK15604/2017**

Gender : **Unknown**

Birth date : **23/08/2017**

Owner :

BROMOSE Erika

4684 Holmegaard (DK)

Customer Nb : C73578

Sample Number : **541 650** (Authenticated)

Sample type : Blood sample

Sample date : 17/10/2017

Request date : 23/10/2017

Sampler veterinarian :

LAURSEN Susanne

4700 Nastved (DK)

Official number :

File Nu. : 138 539

Animal Number : 166 156

Result code : 285651

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 26/10/2017

Certificate issued on 26/10/2017

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.