GENETIC CERTIFICATE

Ms Erika BROMOSE
Dystedvej 24
4684 Holmegaard
DENMARK

Name : **Cobie**

Breed : **Bernese Mountain Dog**

ID Number : **208 250 000 074 822**
Pedigree Number : **DK08798/2016**

Gender : **Female**
Birth date : **17/04/2016**

Owner :
BROMOSE Erika
4684 Holmegaard (DK)
Customer Nb : C73578

Sample Number : **494 790** (Authenticated)
Sample type : Blood sample
Sample date : 14/07/2016
Request date : 21/07/2016

Sampler veterinarian :
OLSEN Peter Kjeldsted
4700 Naestved (DK)
Official number : **5715**

File Nu. : 121 055
Animal Number : 141 612
Result code : 228959

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.

Lina Muselet
Genetics Engineer

Result established on 27/07/2016

Certificate issued on 27/07/2016

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.