

GENETIC CERTIFICATE

Ms Helle SINCLAIR

Fjellerup Bygade 36
8585 Glesborg
DENMARK

Name : **Pa-di Sinclair's Quiana**

Specie : **Dog**
Breed : **Bernese Mountain Dog**

ID Number : **208 250 000 152 765**
Pedigree Number : **DK10553/2020**

Gender : **Female**
Birth date : **01/06/2020**

Owner :
SINCLAIR Helle
8585 Glesborg (DK)
Customer Nb : C75415

Sample Number : **674 839**
Sample type : Blood sample
Sample date : 03/07/2020
Request date : 31/07/2020

Sample realized by :
HELLSKOV Line (Veterinarian)
8410 Ronde (DK)
Official Nb : **2176**
Authenticated sample

File Nu. : 180 863
Animal Number : 223 699
Result code : 420724

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

Elodie Belmonte
Genetic Analyst

Result established on 06/08/2020

Certificate issued on 06/08/2020



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.