



GENETIC CERTIFICATE

Name : **Bakkeborg`s Berner`s
Berta**

Ms Ingelise NIELSEN
Karbymark 7
7960 Karby
DENMARK

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

ID Number : **208 210 000 656 901**
Pedigree Number : **DK11338/2018**

Sample Number : **597 289** (Authenticated)
Sample type : Blood sample
Sample date : 27/09/2018
Request date : 03/10/2018

Gender : **Female**
Birth date : **13/06/2018**

Sampler veterinarian :
HOVGAARD SORENSEN René
7900 Nykobing Mors (DK)
Official number :

Owner :
NIELSEN Ingelise
7960 Karby (DK)
Customer Nb : C97846

File Nu. : 152 575
Animal Number : 182 866
Result code : 330231

Histiocytic Sarcoma (Test SH)

Result : **Index B**

Interpretation : Neutral index - not predictive of higher or lower risk of developing Histiocytic Sarcoma.

This genetic test should be just one of the many selection criteria. It is important within a breeding population to give priority to individuals with the best index but is also of the utmost importance when selecting breeding pairs that sufficient genetic diversity is maintained in the breed.

Méline Corniquel
Genetic Analyst

Caroline Dufaure De Citres
Genetic Analyst

Result established on 12/10/2018

Certificate issued on 12/10/2018

Explanation

This genetic test for Histiocytic Sarcoma is based on 9 genetic markers (Panel SH0912) identified from scientific research on Histiocytic Sarcoma on Bernese Mountain Dogs carried out by the Canine Genetics Team of the CNRS of Rennes, France. The methods used to calculate the genetic index were based on a population of 1081 European dogs, mainly from France. The test for Histiocytic Sarcoma has three possible results expressed as an index: index A, the individual tested has a four times lower risk of developing Histiocytic Sarcoma ; index B means neutral index ; index C, the individual tested has a four times higher risk of developing Histiocytic Sarcoma. This genetic test is simply a probability test, and this must be clearly accepted by the user. This genetic test is designed solely to be a tool to help breeders in their breeding decisions. As a probability test, the test SH is subject to error and should not therefore be used, under no circumstances, as a commercial or advertising point by breeders. The ANTAGENE laboratory will provide the necessary state-of-the-art technology to guarantee the reliability of its genetic test.

GENETIC CERTIFICATE

Name : **Bakkeborg`s Berner`s
Berta**

Ms Ingelise NIELSEN
Karbymark 7
7960 Karby
DENMARK

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

ID Number : **208 210 000 656 901**
Pedigree Number : **DK11338/2018**

Sample Number : **597 289** (Authenticated)
Sample type : Blood sample
Sample date : 27/09/2018
Request date : 03/10/2018

Gender : **Female**
Birth date : **13/06/2018**

Sampler veterinarian :
HOVGAARD SORENSEN René
7900 Nykobing Mors (DK)
Official number :

Owner :
NIELSEN Ingelise
7960 Karby (DK)
Customer Nb : C97846

File Nu. : 152 575
Animal Number : 182 866
Result code : 330230

Degenerative Myelopathy (DM-sod1a)

Result : **Normal homozygous**

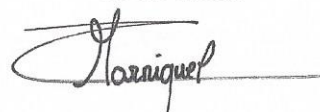
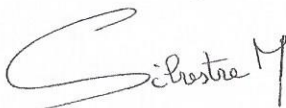
Interpretation : The animal has 2 normal copies of the SOD1A allele. The animal will not develop the form of Degenerative Myelopathy associated to the tested mutation. The animal will not transmit the genetic anomaly to its progeny.

Manon Silvestre
Genetic Analyst

Méline Corniquel
Genetic Analyst

Result established on 09/10/2018

Certificate issued on 09/10/2018



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.