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GENETIC CERTIFICATE

Ms Susanne RANDLOV PETERSEN
Greve Strandvej 123
2670 Greve
DENMARK

Name : **Prima-Sennen's Elton of Duchess**

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

ID Number : **208 274 000 108 563**
Pedigree Number : **DK00396/2018**

Gender : **Male**
Birth date : **07/12/2017**

Owner :
RANDLOV PETERSEN Susanne
2670 Greve (DK)
Customer Nb : C73770

Sample Number : **652 772**
Sample type : Blood sample
Sample date : 20/09/2019
Request date : 26/09/2019

Sample realized by :
NORDGREN Uffe (Veterinarian)
4600 Koge (DK)
Official Nb : **4728**
Authenticated sample

File Nu. : 168 239
Animal Number : 207 529
Result code : 380078

Histiocytic Sarcoma (Test SH)

Result : **Index A**

Interpretation : The individual tested has a four times 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.

Result established on 02/10/2019
Certificate issued on 02/10/2019

Estelle Sauvegrain
Genetic Analyst

Elodie Belmonte
Genetic Analyst

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.

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File Nu. : 168 239
Animal Number : 207 529
Result code : 380077

Degenerative Myelopathy (DM-sod1b)

Result : **Normal homozygous**

Interpretation : The animal has 2 normal copies of the SOD1B 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.

Result established on 02/10/2019
Certificate issued on 02/10/2019

Elodie Belmonte
Genetic Analyst

Estelle Sauvegrain
Genetic Analyst

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.52A>T mutation in the SOD1 gene (Zeng et al. 2014). 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-sod1A) 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.

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Sample date : 20/09/2019
Request date : 26/09/2019

Sample realized by :
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4600 Koge (DK)
Official Nb : **4728**
Authenticated sample

File Nu. : 168 239
Animal Number : 207 529
Result code : 380076

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.

Result established on 02/10/2019
Certificate issued on 02/10/2019

Elodie Belmonte
Genetic Analyst

Estelle Sauvegrain
Genetic Analyst

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.