



GENETIC CERTIFICATE

Name : **Sancho Z' Schangnauer
Glück**

Ms Julia JOSSI
Ischweg 31
3818 Grindelwald
SWITZERLAND

Breed : **Bernese Mountain Dog**
ID Number : **756 098 100 570 351**
Pedigree Number : **SHSB 727408**

Sample Number : **515 398** (Authenticated)
Sample type : Blood sample
Sample date : 14/12/2016
Request date : 19/12/2016

Gender : **Male**
Birth date : **08/06/2014**

Sampler veterinarian :
LOHRER Andreas
3800 Interlaken (CH)
Official number :

Owner :
JOSSI Julia
3818 Grindelwald (CH)
Customer Nb : C83316

File Nu. : 126 392
Animal Number : 150 633
Result code : 247027

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.

Result established on 23/12/2016

Certificate issued on 23/12/2016

Lina Muselet
Genetics Engineer

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.



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Sampler veterinarian :

LOHRER Andreas

3800 Interlaken (CH)

Official number :

File Nu. : 126 392

Animal Number : 150 633

Result code : 247028

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 23/12/2016

Certificate issued on 23/12/2016

Lina Muselet
Genetics Engineer

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.