



GENETIC CERTIFICATE

Ms Bjorg BRENNE

Olav Bjaalands gt 7
3675 Notodden
NORWAY

Name : **Milbu Heiko**

Breed : **Bernese Mountain Dog**

ID Number : **900 164 000 284 410**

Pedigree Number : **LV 34511/14**

Gender : **Male**

Birth date : **03/09/2014**

Owner :

BRENNE Bjorg

3675 Notodden (NO)

Customer Nb : C62773

Sample Number : **489 797** (Authenticated)

Sample type : Blood sample

Sample date : 00/00/0000

Request date : 23/03/2016

Sampler veterinarian :

SYRSTAD Per Atle

3055 Krokstadella (NO)

Official number :

File Nu. : 115 916

Animal Number : 136 437

Result code : 213408

Histiocytic Sarcoma (pre-test)

Result : **Index B**

Interpretation : Neutral index

This genetic pre-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 31/03/2016

Certificate issued on 31/03/2016

Lina Muselet
Genetics Engineer

Explanation

This genetic pre-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 pre-test for Histiocytic Sarcoma has three possible results expressed as an index: index A, the tested individuals have four times the chance of not developing Histiocytic Sarcoma ; index B means neutral index ; index C, the tested individuals have four times the risk of developing Histiocytic Sarcoma. The genetic pre-test is simply a probability test, and this must be clearly accepted by the user.

This genetic pre-test is designed solely to be a tool to help breeders in their breeding decisions. As a probability test, the genetic pre-test is subject to error and should not therefore be used in the sale of dogs or puppies and, under no circumstances, should it be used 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 pre-test.