GENETIC CERTIFICATE

Ms Julia JOSSI
Ischweg 31
3818 Grindelwald
SWITZERLAND

Name : **Sancho Z' Schangnauer Glück**

Breed : **Bernese Mountain Dog**

ID Number : **756 098 100 570 351**
Pedigree Number : **SHSB 727408**

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

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

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

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

File Nu. : 126 396
Animal Number : 150 633
Result code : 247029

Histiocytic Sarcoma (Test SH)

Result : **Index C**

Interpretation : The individual tested has a four times higher risk of developing Histiocytic Sarcoma. The risk of the markers associated with the disease being transmitted to offspring is greatly increased.

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.
An Index C dog with a number of other positive qualities should not be removed from the breeding programme, rather it should only be mated with individuals showing Index A or B results. Mating programmes should be planned to avoid C x C matings.

Lina Muselet
Genetics Engineer

Result established on 11/01/2017
Certificate issued on 17/01/2017

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.