

## GENETIC CERTIFICATE

**Ms Tenna ERNST**

Haslehojvej 33  
8210 ARHUS-V  
DENMARK

Name : **Mihofka's Falke**

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

ID Number : **208 250 000 158 762**  
Pedigree Number : **DK06316/2021**

Gender : **Male**  
Birth date : **04/03/2021**

Owner :  
**ERNST Tenna**  
8210 ARHUS-V (DK)  
Customer Nb : C77313

Sample Number : **798 571**  
Sample type : Blood sample  
Sample date : 31/03/2022  
Request date : 06/04/2022

Sample realized by :  
**INKUAER BIRCK Nielsjan** (Veterinarian)  
DK8300 Odder (DK)  
Official Nb :  
Authenticated sample

File Nu. : 218 108  
Animal Number : 276 608  
Result code : 535080

### 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.

Magali Kernaleguen  
Genetic Analyst

Estelle Sauvegrain  
Genetic Analyst

Result established on 15/04/2022

Certificate issued on 15/04/2022



#### 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.