

## GENETIC CERTIFICATE

**Ms Helle SINCLAIR**

Fjellerup Bygade 36  
8585 Glesborg  
DENMARK

Name : **Pa-di Sinclair's Signe  
Elisabeth**

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

ID Number : **208 250 000 158 676**  
Pedigree Number :

Gender : **Female**  
Birth date : **10/03/2021**

Owner :  
**SINCLAIR Helle**  
8585 Glesborg (DK)  
Customer Nb : C75415

Sample Number : **747 309**  
Sample type : Blood sample  
Sample date : 28/04/2021  
Request date : 05/05/2021

Sample realized by :  
**KIRCHHOFF Kathrine** (Veterinarian)  
8382 Hinnerup (DK)  
Official Nb : **3234**  
Authenticated sample

File Nu. : 197 055  
Animal Number : 247 140  
Result code : 471813

### 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.

Magali Kernaleguen  
Genetic Analyst

Mathilde Verdier  
Genetic Analyst

Result established on 19/05/2021

Certificate issued on 21/05/2021



#### 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.