

## GENETIC CERTIFICATE

**Ms Therese BRATENES**

Nedre Langgt 105  
1743 Klavestadhaugen  
NORWAY

Name : **Belle Av Triomar**

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

ID Number : **578 097 809 154 534**  
Pedigree Number : **No32231/16**

Gender : **Female**  
Birth date : **16/01/2016**

Owner :  
**BRATENES Therese**  
1743 Klavestadhaugen (NO)  
Customer Nb : C77418

Sample Number : **609 430** (Authenticated)  
Sample type : Blood sample  
Sample date : 05/12/2018  
Request date : 17/12/2018

Sampler veterinarian :  
**GRANUM Aksel**  
3055 Krokstadelva (NO)  
Official number : **10045841**

File Nu. : 155 401  
Animal Number : 183 960  
Result code : 339209

### 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

Caroline Dufaure De Citres  
Genetic Analyst

Result established on 21/12/2018

Certificate issued on 21/12/2018



#### 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.