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Juvenile epilepsy gene test for Lagotto Romagnolo

Lab. number:	Dog's name:	Chip number:	Result:
5893	Tartufo Roco	985100010664812	Carrier
5894	Nugold Mia Rose	978000001197229	Normal
5895	Azzuronastro Ms Fiorella	985100010742027	Affected

Benign juvenile epilepsy in Lagottos is an autosomal recessive disorder and the test results are interpreted follows:

- Normal:** No epilepsy mutation and therefore no predisposition to juvenile epilepsy
- Carrier:** Heterozygote for the juvenile epilepsy mutation (carries one copy of the juvenile epilepsy mutation)
- Affected:** Homozygote for the juvenile epilepsy mutation (carries two copies of the juvenile epilepsy mutation)

Puppies that have increased risk of developing juvenile epilepsy can be born if both parents are heterozygote. The probability of having affected puppies in that case is approximately 25%. If one parent is heterozygote and the other homozygote (affected) the probability of having affected puppies is 50%. If both parents are homozygote only affected puppies will be born. Puppies homozygous for the mutation become affected and experience seizures of variable extent and severity. Few individual heterozygous carriers have also been reported with seizures. The reason for this is unclear with the following possible explanations under further investigations: the carrier puppy has another mutation in the same gene, or there is another mutation in another gene, or the heterozygosity for the mutation lowers the seizure threshold in some puppies. The breed suffers also from a persisting and progressive juvenile ataxia resulting often to the euthanasia of the affected puppy. In addition, there is an adult-onset epilepsy caused by other genetic factors. If your Lagotto was tested as a carrier but has experienced seizures please contact our customer service (info@genoscooper.com) for further investigation. We are also looking for more ataxia and adult-onset epilepsy cases from the breed to study the genetics of these disorders.

On behalf of Genoscooper,



Marjut Ritala, Medical Laboratory Technologist

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