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DNA ANALYSIS PROTOCOL FOR DETECTION OF HEREDITARY DISEASES

Submitter of analysis: Sandrine BERCIER
821 route des bruyeres
38440 Villeneuve de marc, FR

Date of sampling: 07.11.2017
Date of samples receipt: 14.11.2017
Date of analysis: 15.11.2017

Breed/name	**Tattoo or RFID id/** Certificate of origin	**Laboratory code**	**Type of analysis**	**Result**
Australian Shepherd / NIRVANA		171114/P1919	MDR1	N/N (+/+) Non-affected

The results of analysis are stored in a database under the lab code 171114/P1919.

Hints:
MDR1-Multidrug resistence gene - nt230(del4), (autosomal recessive)
MDR1 +/+ or N/N (non-affected): Both genes, inherited from both mother and father are undamaged (healthy).
MDR1 +/– or N/P (carrier): Subjects with confirmed heterozygous genotype are carriers. Defective gene can be transmitted to offspring. Unwanted side effects are unlikely to occur but cannot be excluded.
MDR1 –/– or P/P (affected): Particular caution is necessary in case an individual is diagnosed MDR1 -/- genotype. Treatment with certain drugs in this case can cause significant problems in some cases lethal neurotoxic reaction.

Notice:This protocol applies exclusively to the sample and the data that were supplied by the submitter. DNA analysis concerns only the above mentioned disease. No information regarding the customer as well as purpose and results of the analysis will be provided to third parties.

In Bratislava 15.11.2017
Ing. Marcela Bieliková, PhD.

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DNA ANALYSIS PROTOCOL FOR DETECTION OF HEREDITARY DISEASES

Submitter of analysis: Sandrine BERCIER
821 route des bruyeres
38440 Villeneuve de marc, FR

Date of sampling: 07.11.2017
Date of samples receipt: 14.11.2017
Date of analysis: 05.12.2017

Breed/name	**Tattoo or RFID id/** Certificate of origin	**Laboratory code**	**Type of analysis**	**Result**
Australian Shepherd / NIRVANA		171114/P1919	HSF4/HC	N/N Non-affected

The results of analysis are stored in a database under the lab code 171114/P1919.

Hints:
HSF4 (HC) – Hereditary cataract – deletion/insertion 1 bp in exon 9 of HSF4-gene (Heat shock factor protein 4).
HSF4/HC N/N – NON-AFFECTED (NORMAL), Both genes, inherited from both male and female are unaffected.
HSF4/HC N/A – CARRIER, confirmed heterozygous N/A genotype. Mutation can be transmitted to offspring.
HSF4/HC A/A – AFFECTED by the disease.

The HC disorder in Australian Shepherds has an autosomal dominant mode of inheritance, however with incomplete penetrance, the disease may not develop in every carrier of this deletion. The probability that the binocular HC develops in individuals with one copy of deletion (carriers) is approximately 17 times higher than in dogs clear of the deletion mutation (Mellersh et al. 2009).

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In Bratislava 05.12.2017
Ing. Marcela Bieliková, PhD.

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DNA ANALYSIS PROTOCOL FOR DETECTION OF HEREDITARY DISEASES

Snitter of analysis: Sandrine BERCIER
821 route des bruyeres
38440 Villeneuve de marc, FR

Date of sampling: 09.09.2016
Date of samples receipt: 16.09.2016
Date of analysis: 22.09.2016

Breed/name	**Tattoo or RFID id/** Certificate of origin	**Laboratory code**	**Type of analysis**	**Result**
Aulian Shepherd / IRISH I LOVLIOS des collines du Lac de Paladru		160916/N1862	PRA-prcd	N/N non-affected

ıe results of analysis are stored in a database under the lab code 160916/N1862.

nts:

tA-prcd - Progressive retinal atrophy (autosomal recessive)

tA-prcd N/N – healthy subject – non-affected. Both genes, inherited from both male and female are unaffected. That means that the subject s both alleles healthy.

tA-prcd N/A – carrier. Subjects with confirmed heterozygous N/A genotype are carriers. Gene mutation can be transmitted to offspring.

tA-prcd A/A – affected subject. The subject is a homozygote with A/A genotype, which inherited the affected allele from both parents and ıs is affected by the disease.

otice:This protocol applies exclusively to the sample and the data that were supplied by the submitter. DNA ıalysis concerns only the above mentioned disease. No information regarding the customer as well as ırpose and results of the analysis will be provided to third parties.

In Bratislava 22.09.2016
Ing. Marcela Bieliková, PhD.