



dr. van haeringen laboratorium b.v.

a VHLGenetics company

Alvaro Cattery Szymanska

INFORMATION ONLY

POLAND

Customer number 97980

Analysis Certificate

Animal data

Name: LAMBOKITTY ICEMAN
Date of birth: 13.01.2018
Sexe: Male
Chip number: 578 098 100 620 853
Breed: Unknown

Sample data

VHL_ID: K22416
Test ID-nr: 24687 9
Material: Swab

K754 - Pyruvatekinase Def. - Date of test: 27.01.2020

Testresult: NORMAL

K793 - Bloodtyping (DNA) - Date of test: 27.01.2020

Testresult: genotype N/N

K762 - rdAc-PRA - Date of test: 27.01.2020

Testresult: NORMAL

K711 - PKD test - Date of test: 27.01.2020

Testresult: pkd1/pkd1

K799 - HCM3 - Date of test: 27.01.2020

Testresult: NORMAL

K725 - HCM1 Test - Date of test: 27.01.2020

Testresult: NORMAL

K504 - Periodic paralysis (WNK4-Hypokalemia) - Date of test: 27.01.2020

Testresult: NORMAL

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K597 - Congenital Adrenal Hyperplasia - Date of test: 27.01.2020

Testresult: NORMAL

K598 - Dihydropyrimidinase Deficiency - Date of test: 27.01.2020

Testresult: NORMAL

K599 - Hyperlipoproteinaemia - Date of test: 27.01.2020

Testresult: NORMAL

K600 - Niemann-Pick C1 Disease - Date of test: 27.01.2020

Testresult: NORMAL

K601 - Primary Hyperoxaluria II - Date of test: 27.01.2020

Testresult: NORMAL

K640 - Gangliosidosis, GM2, type II - 1 - Date of test: 27.01.2020

Testresult: NORMAL

K641 - Vitamin D-deficiency rickets, type I - Date of test: 27.01.2020

Testresult: NORMAL

K646 - Gangliosidosis, GM2, GM2A - Date of test: 27.01.2020

Testresult: NORMAL

K647 - Gangliosidosis, GM2, type II - 2 - Date of test: 27.01.2020

Testresult: NORMAL

K649 - Hypothyroidism - Date of test: 27.01.2020

Testresult: NORMAL

K650 - Mucopolysaccharidosis VII - Date of test: 27.01.2020

Testresult: NORMAL

K651 - Mucopolysaccharidosis VI - Date of test: 27.01.2020

Testresult: NORMAL

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K656 - Haemophilia B - 1 - Date of test: 27.01.2020

Testresult: NORMAL

K657 - Haemophilia B - 2 - Date of test: 27.01.2020

Testresult: NORMAL

K386 - Mucopolysaccharidosis I - Date of test: 27.01.2020

Testresult: NORMAL

D. Mioch, MSc Veterinary Medicine
CEO

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K754 - Pyruvatekinase Def.

Explanation about the result:

NORMAL: The animal is free and has two healthy alleles. When used in breeding, this animal will not become ill due to the disease. It cannot spread the disease in the population.

CARRIER: The animal is carrier and has one healthy and one mutant (disease) allele. When used in breeding, 50 percent of the offspring will receive the disease allele. Carriers will not become ill.

AFFECTED: The animal is affected and has two mutant (disease) alleles. When used in breeding, all offspring will receive the mutant allele from this animal. Affected animals will become ill.

K793 - Bloodtyping (DNA)

Information about the Bloodtyping (DNA):

genotype b/b: The cat carries two copies of the recessive b allele. Serologically the cat shows bloodgroup B.

genotype N/b: The cat carries one copy of the recessive b allele. Serologically the cat shows bloodgroup A or AB. The cat will pass the mutation onto its offspring with a probability of 50%.

genotype N/N: The cat is a non-carrier of the recessive b allele. Serologically the cat shows bloodgroup A or AB.

This test is validated in all breeds, except Ragdolls and Turkish Angora.

In a few percent of the cases, results are inconclusive and status of the B blood group cannot be determined.

This is caused by a combination of genetic variation that was not described in the publication.

K762 - rdAc-PRA

Explanation about the result:

NORMAL: The animal is free and has two healthy alleles. When used in breeding, this animal will not become ill due to the disease. It cannot spread the disease in the population.

CARRIER: The animal is carrier and has one healthy and one mutant (disease) allele. When used in breeding, 50 percent of the offspring will receive the disease allele. Carriers will not become ill.

AFFECTED: The animal is affected and has two mutant (disease) alleles. When used in breeding, all offspring will receive the mutant allele from this animal. Affected animals will become ill.

K711 - PKD test

Information about the PKD test:

Based on the results three groups of animals can be detected:

pkd1/pkd1: The cat is NO CARRIER, and has two healthy copies from the gene.

PKD1/pkd1: The cat is AFFECTED, and has one healthy and one defect copy from the gene.

PKD1/PKD1: The cat is AFFECTED, and has two defect copies from the gene.

The PKD test detects the presence of a mutation in the ADPKD1 gene (C->A mutation in exon 29), which is suggested to be responsible for Polycystic Kidney Disease (PKD) in several breeds. PKD of other genesis, especially caused by other unknown mutations cannot be excluded by this test.

K799 - HCM3

Explanation about the result:

NORMAL: The animal is free and has two healthy alleles. When used in breeding, this animal will not become ill due to the disease. It cannot spread the disease in the population.

CARRIER: The animal is carrier and has one healthy and one mutant (disease) allele. When used in breeding, 50 percent of the offspring will receive the disease allele. Carriers will also become ill.

AFFECTED: The animal is affected and has two mutant (disease) alleles. When used in breeding, all offspring will receive the mutant allele from this animal. Affected animals will become ill.

Information about the HCM3 test

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The HCM3 test is based on the detection of a mutation in the MYBPC3 gene, which is suggested to cause hypertrophic cardiomyopathy (HCM) in Ragdoll cats. In Ragdolls the mutation which is suggested to cause HCM is like in Maine Coons in the MYBPC3-gene but in a different domain. HCM of other genesis caused by other mutations cannot be excluded by this test.

K725 - HCM1 Test

Explanation about the result:

NORMAL: The animal is free and has two healthy alleles. When used in breeding, this animal will not become ill due to the disease. It cannot spread the disease in the population.

CARRIER: The animal is carrier and has one healthy and one mutant (disease) allele. When used in breeding, 50 percent of the offspring will receive the disease allele. Carriers will also become ill.

AFFECTED: The animal is affected and has two mutant (disease) alleles. When used in breeding, all offspring will receive the mutant allele from this animal. Affected animals will become ill.

Information about the HCM1 test

The HCM1 test detects the mutation in the MYBPC gene (G->C mutation in exon 3) which is suggested to be responsible for hypertrophic cardiomyopathy in several cat breeds. HCM of other genesis especially caused by other mutation or other unknown mutations cannot be excluded by this test.

K504 - Periodic paralysis (WNK4-Hypokalemia)

Explanation about the result:

NORMAL: The animal is free and has two healthy alleles. When used in breeding, this animal will not become ill due to the disease. It cannot spread the disease in the population.

CARRIER: The animal is carrier and has one healthy and one mutant (disease) allele. When used in breeding, 50 percent of the offspring will receive the disease allele. Carriers will not become ill.

AFFECTED: The animal is affected and has two mutant (disease) alleles. When used in breeding, all offspring will receive the mutant allele from this animal. Affected animals will become ill.

K597 - Congenital Adrenal Hyperplasia

Explanation about the result:

NORMAL: The animal is free and has two healthy alleles. When used in breeding, this animal will not become ill due to the disease. It cannot spread the disease in the population.

CARRIER: The animal is carrier and has one healthy and one mutant (disease) allele. When used in breeding, 50 percent of the offspring will receive the disease allele. Carriers will not become ill.

AFFECTED: The animal is affected and has two mutant (disease) alleles. When used in breeding, all offspring will receive the mutant allele from this animal. Affected animals will become ill.

K598 - Dihydropyrimidinase Deficiency

Explanation about the result:

NORMAL: The animal is free and has two healthy alleles. When used in breeding, this animal will not become ill due to the disease. It cannot spread the disease in the population.

CARRIER: The animal is carrier and has one healthy and one mutant (disease) allele. When used in breeding, 50 percent of the offspring will receive the disease allele. Carriers will not become ill.

AFFECTED: The animal is affected and has two mutant (disease) alleles. When used in breeding, all offspring will receive the mutant allele from this animal. Affected animals will become ill.

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K599 - Hyperlipoproteinaemia

Explanation about the result:

NORMAL: The animal is free and has two healthy alleles. When used in breeding, this animal will not become ill due to the disease. It cannot spread the disease in the population.

CARRIER: The animal is carrier and has one healthy and one mutant (disease) allele. When used in breeding, 50 percent of the offspring will receive the disease allele. Carriers will not become ill.

AFFECTED: The animal is affected and has two mutant (disease) alleles. When used in breeding, all offspring will receive the mutant allele from this animal. Affected animals will become ill.

K600 - Niemann-Pick C1 Disease

Explanation about the result:

NORMAL: The animal is free and has two healthy alleles. When used in breeding, this animal will not become ill due to the disease. It cannot spread the disease in the population.

CARRIER: The animal is carrier and has one healthy and one mutant (disease) allele. When used in breeding, 50 percent of the offspring will receive the disease allele. Carriers will not become ill.

AFFECTED: The animal is affected and has two mutant (disease) alleles. When used in breeding, all offspring will receive the mutant allele from this animal. Affected animals will become ill.

K601 - Primary Hyperoxaluria II

Explanation about the result:

NORMAL: The animal is free and has two healthy alleles. When used in breeding, this animal will not become ill due to the disease. It cannot spread the disease in the population.

CARRIER: The animal is carrier and has one healthy and one mutant (disease) allele. When used in breeding, 50 percent of the offspring will receive the disease allele. Carriers will not become ill.

AFFECTED: The animal is affected and has two mutant (disease) alleles. When used in breeding, all offspring will receive the mutant allele from this animal. Affected animals will become ill.

K640 - Gangliosidosis, GM2, type II - 1

Explanation about the result:

NORMAL: The animal is free and has two healthy alleles. When used in breeding, this animal will not become ill due to the disease. It cannot spread the disease in the population.

CARRIER: The animal is carrier and has one healthy and one mutant (disease) allele. When used in breeding, 50 percent of the offspring will receive the disease allele. Carriers will not become ill.

AFFECTED: The animal is affected and has two mutant (disease) alleles. When used in breeding, all offspring will receive the mutant allele from this animal. Affected animals will become ill.

K641 - Vitamin D-deficiency rickets, type I

Explanation about the result:

NORMAL: The animal is free and has two healthy alleles. When used in breeding, this animal will not become ill due to the disease. It cannot spread the disease in the population.

CARRIER: The animal is carrier and has one healthy and one mutant (disease) allele. When used in breeding, 50 percent of the offspring will receive the disease allele. Carriers will not become ill.

AFFECTED: The animal is affected and has two mutant (disease) alleles. When used in breeding, all offspring will receive the mutant allele from this animal. Affected animals will become ill.

K646 - Gangliosidosis, GM2, GM2A

Explanation about the result:

NORMAL: The animal is free and has two healthy alleles. When used in breeding, this animal will not become ill

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due to the disease. It cannot spread the disease in the population.

CARRIER: The animal is carrier and has one healthy and one mutant (disease) allele. When used in breeding, 50 percent of the offspring will receive the disease allele. Carriers will not become ill.

AFFECTED: The animal is affected and has two mutant (disease) alleles. When used in breeding, all offspring will receive the mutant allele from this animal. Affected animals will become ill.

K647 - Gangliosidosis, GM2, type II - 2

Explanation about the result:

NORMAL: The animal is free and has two healthy alleles. When used in breeding, this animal will not become ill due to the disease. It cannot spread the disease in the population.

CARRIER: The animal is carrier and has one healthy and one mutant (disease) allele. When used in breeding, 50 percent of the offspring will receive the disease allele. Carriers will not become ill.

AFFECTED: The animal is affected and has two mutant (disease) alleles. When used in breeding, all offspring will receive the mutant allele from this animal. Affected animals will become ill.

K649 - Hypothyroidism

Explanation about the result:

NORMAL: The animal is free and has two healthy alleles. When used in breeding, this animal will not become ill due to the disease. It cannot spread the disease in the population.

CARRIER: The animal is carrier and has one healthy and one mutant (disease) allele. When used in breeding, 50 percent of the offspring will receive the disease allele. Carriers will not become ill.

AFFECTED: The animal is affected and has two mutant (disease) alleles. When used in breeding, all offspring will receive the mutant allele from this animal. Affected animals will become ill.

K650 - Mucopolysaccharidosis VII

Explanation about the result:

NORMAL: The animal is free and has two healthy alleles. When used in breeding, this animal will not become ill due to the disease. It cannot spread the disease in the population.

CARRIER: The animal is carrier and has one healthy and one mutant (disease) allele. When used in breeding, 50 percent of the offspring will receive the disease allele. Carriers will not become ill.

AFFECTED: The animal is affected and has two mutant (disease) alleles. When used in breeding, all offspring will receive the mutant allele from this animal. Affected animals will become ill.

K651 - Mucopolysaccharidosis VI

Explanation about the result:

NORMAL: The animal is free and has two healthy alleles. When used in breeding, this animal will not become ill due to the disease. It cannot spread the disease in the population.

CARRIER: The animal is carrier and has one healthy and one mutant (disease) allele. When used in breeding, 50 percent of the offspring will receive the disease allele. Carriers will not become ill.

AFFECTED: The animal is affected and has two mutant (disease) alleles. When used in breeding, all offspring will receive the mutant allele from this animal. Affected animals will become ill.

K656 - Haemophilia B - 1

Explanation about the result for females:

NORMAL: The animal is free and has two healthy alleles. It cannot spread the disease in the population.

CARRIER: The animal is carrier and has one healthy and one mutant (disease) allele. When used in breeding, 50 percent of the offspring will receive the disease

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allele. Carriers will not become ill.

AFFECTED: The animal is affected and has two mutant (disease) alleles. When used in breeding, all offspring will receive the mutant allele from this animal. Affected animals will become ill.

Explanation about the result for males:

NORMAL: The animal is free and has one healthy allele and the sex chromosome Y. It cannot spread the disease in the population.

AFFECTED: The animal is affected and has one mutant (disease) allele and the sex chromosome Y. When used in breeding, all male offspring will receive the sex chromosome Y. All female offspring will receive the mutant (disease) allele.

K657 - Haemophilia B - 2

Explanation about the result for females:

NORMAL: The animal is free and has two healthy alleles. It cannot spread the disease in the population.

CARRIER: The animal is carrier and has one healthy and one mutant (disease) allele. When used in breeding, 50 percent of the offspring will receive the disease allele. Carriers will not become ill.

AFFECTED: The animal is affected and has two mutant (disease) alleles. When used in breeding, all offspring will receive the mutant allele from this animal. Affected animals will become ill.

Explanation about the result for males:

NORMAL: The animal is free and has one healthy allele and the sex chromosome Y. It cannot spread the disease in the population.

AFFECTED: The animal is affected and has one mutant (disease) allele and the sex chromosome Y. When used in breeding, all male offspring will receive the sex chromosome Y. All female offspring will receive the mutant (disease) allele.

K386 - Mucopolysaccharidosis I

Explanation about the result:

NORMAL: The animal is free and has two healthy alleles. When used in breeding, this animal will not become ill due to the disease. It cannot spread the disease in the population.

CARRIER: The animal is carrier and has one healthy and one mutant (disease) allele. When used in breeding, 50 percent of the offspring will receive the disease allele. Carriers will not become ill.

AFFECTED: The animal is affected and has two mutant (disease) alleles. When used in breeding, all offspring will receive the mutant allele from this animal. Affected animals will become ill.

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