VETERINARSKA AMBULANTA
LJUBIMAC

Matije Ivanića 19, 10000 Zagreb
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www.ljubimac.net
ljubimac.ambulanta@gmail.com

OFTALMOLOŠKI PREGLED - OPHTALMIC EXAMINATION

OPIS ŽIVOTINJE / ANIMAL DESCRIPTION

IME ŽIVOTINJE / NAME : Lars Anima Magica

DATUM ROĐENJA / DATE OF BIRTH : 7.2.2021.

VRSTA / SPECIES : DOG / PAS SPOL / SEX : M

PASMINA / BREED : LABRADOR RETRIVER BOJA / COLOR : ČOKOLADNI

MIKROČIP / MICROCHIP Nº. : 191100002130965 BROJ RODOVNIKA / PEDIGREE Nº. : HR20701LR

VLASNIK / OWNER

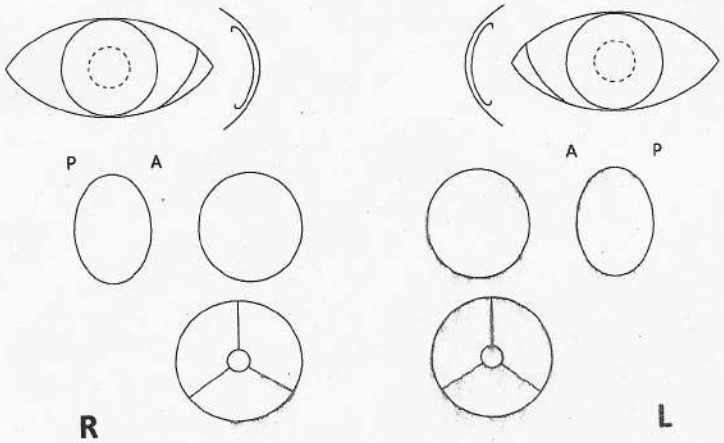
IME I PREZIME / FIRST NAME, SURNAME : IVANA VLAŠIĆ

ADRESA / ADRESS : TRG 68, OZALJ ,47280 CROATIA

PREGLED OKA - EXAMINATION OF EYE

MYDRIATIC : [x] OPHTALMOSCOPY : DIRECT [x] INDIRECT [✓] BIOMICROSCOPY [x] OTHER

PARTS EXAMINED	ADNEXA	CORNEA	IRIS	LENS	VITREOUS	FUNDUS	CLINICALLY AFFECTED	CLINICALLY UNAFFECTED
CLINICALLY AFFECTED								
CLINICALLY UNAFFECTED								



COLLIE EYE ANOMALY	[ ]	[X]
RD RETINAL DYSPLASIA	[ ]	[X]
PPM PESISTENT PUPILLARY MEMBRANE	[ ]	[X]
PHPV PERSISTENT HYPERPLASTIC PRIMARY VITREUS	[ ]	[X]
TUNICA VASCULOSA LENTIS	[ ]	[X]
CATARACT	[ ]	[X]
CORNEAL DYSTROPHY	[ ]	[X]
PRIMARY LENS LUXATION	[ ]	[X]
RETINAL DEGENERATION (PRA)	[ ]	[X]
ENTROPION	[ ]	[X]
ECTROPION	[ ]	[X]
OPTIC NERVE HYPOPLASIA	[ ]	[X]

KOMENTAR / COMMENTS :

Vlatka-Antonija Csik
DMV

DATUM / DATE OF EXAMINATION : 26.10.2022.

VLATKA- ANTONIJA CSIK
dr. med. vet
OVLAŠTENI VETERINAR br. 2042

HRVATSKI KINOLOŠKI SAVEZ

CROATIAN KENNEL CLUB

Ur.Br. 21/7770
Ref.No. _____

P O T V R D A
CONFIRMATION

KOJOM SE POTVRĐUJE DA JE PAS
WHICH CERTIFIES THAT THE DOG

LARS ANIMA MAGICA

PASMINA **LABRADOR RETRIEVER**
BREED

BROJ **HR 20701 LR** OŠTENJEN **07.02.2021.**
PED.NO. DATE OF BIRTH

VLASNIKA **VLAŠIĆ IVANA**
OWNER

ADRESA **KRALJA ZVONIMIRA 10**
ADDRESS

MJESTO **HR –47000 KARLOVAC**
PLACE

DANA **24.12.2021.**
DATE

ISPUNIO UVJETE ZA TITULU **KINOLOŠKA NADA HRVATSKE.**
HAS FULFILLED THE CONDITIONS TO OBTAIN **FUTURE HOPE OF CROATIA** TITLE.

OVA POTVRDA NE VRIJEDI ZA PRIJAVLJIVANJE PSA U RAZRED PRVAKA NA IZLOŽBAMA PASA.
THIS CONFIRMATION IS NOT VALID FOR AN ENTRY OF A DOG IN CHAMPION CLASS ON SHOWS.

ZA POVJERENSTVO PRIREDBI I KADROVA :
FOR COMMISSION OF EVENTS AND JUDGES:

TAJANA MATEJČIĆ

HRVATSKI KINOLOŠKI SAVEZ
ZAGREB

VETERINARSKI FAKULTET SVEUCILISTA U ZAGREBU
ZAVOD ZA RENDGENOLOGIJU, ULTRAZVUČNU DIJAGNOSTIKU I FIZIKALNU TERAPIJU
FACULTY OF VETERINARY MEDICINE UNIVERSITY OF ZAGREB
DEPARTMENT OF RADIOLOGY, ULTRASOUND DIAGNOSTICS AND PHYSICAL THERAPY
HEINZLOVA 55, ZAGREB TEL: +385 (0)1 23 90 401

POTVRDA - CERTIFICATE

DISPLAZIJA KUKOVA - *HIP DYSPLASIA*	x
DISPLAZIJA LAKTOVA - *ELBOW DYSPLASIA*	x
DATUM SNIMANJA - *X-RAYS MADE ON:*	6.4.2022.

BROJ PROTOKOLA - PROTOCOL NO:
RTG2933/22

PODACI O PSU - DOG DATA

PASMINA - *BREED:*	labrador retriver
IME PSA - *DOG NAME:*	Lars Anima Magica
SPOL - *SEX:*	male
DATUM OŠTENJENJA - *DATE OF BIRTH:*	7.2.2021.
BROJ RODOVNICE - *PEDIGREE NUMBER:*	HR 20701 LR
BROJ MIKROČIPA - *MICROCHIP NUMBER:*	191100002130965
VLASNIK - *OWNER:*	Ivana Dasović Vlašić
ADRESA VLASNIKA - *OWNER ADDRESS:*	47280 OZALJ, Trg 68

OCJENA - CLASSIFICATION

KUKOVI - *HIP*	A	B	C	D	E
LAKTOVI - *ELBOW*	0	1	2	3	

OCJENU IZDAO - *THE EVALUATION WAS MADE BY:*	Dino Stanin dr.vet.med.

Postupak je izveden prema FCI pravilniku.
The procedure has been performed according to the rules of FCI.

POTPIS - *SIGNATURE:*

ŽIG - *STAMP:*

VETERINARSKI FAKULTET U ZAGREBU
Zavod za rendgenologiju, ultrazvučnu dijagnostiku i fizikalnu terapiju

Pasmina / Breed	LABRADOR RETRIVER LABRADOR RETRIEVER
Ime psa / Name	LARS ANIMA MAGICA
Oštenjen / Born On	7.02.2021
Dlaka / Coat	KRATKA / SHORT
Boja / Colour	ČOKOLADNA CHOCOLATE
Uzgajivač / Breeder	VLAŠIĆ IVANA TRG 68, OZALJ 47280

Uzgajivačnica: ANIMA MAGICA,F.C.I.101/20

HRVATSKI KINOLOŠKI SAVEZ
Croatian Kennel Club
1891.

Upisan u Hrvatsku rodovnu knjigu / Registered in Croatian Stud Book	
Pod brojem / Reg. Number	HR 20701 LR
Spol / Sex	MUŽJAK / MALE
Tetovirani broj / Tattoo Number	
Broj čipa / Microchip Number	191100002130965 HRV STER...

Otac i majka / Sire and Dams

Otac / Sire

GALLIVANT LIVE TO RIDE

Broj rodovnice: HR 20354
Oštenjen: 30.08.2019
Boja: ČOKOLADNA
OCJENA: odličan

IPO

HD A
ED 0

Majka / Dam

NINA BEST OF DISCOVERY

Broj rodovnice: HR 19485
Oštenjen: 19.04.2018
Boja: ČOKOLADNA
OCJENA: odličan

IPO

HD A
ED 0

Djedovi / Grand Sires and Grand Dams

GALLIVANT ADAMANTLY BROWN
AKC SS07908803

GALLIVANT'S LIKE A PRAYER
AKC SS03962306

GREENSTONE'S JOURNEY TO MY HEART
HR 18888
CHM-HR HJCH BIHCHM BHFMCH CHHR-I
IPO
HD A
ED 0

IRISH ROSE BEST OF DISCOVERY
HR 17311
IPO
HD A
ED 0

Pradjedovi / Great Grand Sires and Great Grand Dams

CH SHEABOURNE'S GRIZZLY ADAMS
AKC SR69734602

GOFETCH MOLASSES COADT
AKC SR86751601

CH GALLIVANT BLACK RUSSIAN
AKC SR95240602

HEYBERN'S WAIT TILL YOUR FATHER GETS HOME
AKC SR75573501

CH EPOCH'S MOCCASIN JOE
AKC SR68203801

GREENSTONE'S CUPPA DELIGHT
AKC SR75212702

MALLORN'S RING MY BELL
FI34818/10
HD A
ED 0

CAMESWON AGREED ON EVERYTHING
HR 15923
HD A
ED 0

Pra-pradjedovi / Great Great Grand Sires and Great Great Grand Dams

CH PARADOCS OBSIDIAN
AKC SR56731701

CH SHEABOURNE'S PRECIOUS ANGEL
AKC SR22681101

CH EPOCH'S MOCCASIN JOE
AKC SR68203801

BEECHCROFT JERSEY STAR
AKC SR63677704

CH ASTER LIBERTI LABRO HAMBURG
AKC SR92948401

CH GALLIVANT BIGPINES KENYA
AKC SR84819301

HEYBERN'S RHUMBA JUMPS
AKC SR51090803

HEYBERN'S NEW BALANCE
AKC SR35093202

CH QUAIL CHASE BROADWAY JOE WINDFALL
AKC SR47571906

CH EPOCH'S TREASURE
AKC SR52301903

CH BANNER'S NO LINE ON THE HORIZON
AKC SR67818601

CH GREENSTONE'S SPECIAL BLEND
AKC SR61364502

CH CHABLAIS YOUR PLACE OR MINE
CKC TA138694

MALLORN'S RING ANY BELLS
FIN21713/07

CH GOWANVALE BALANCE
KC AE02463802

CH STENVEYZ BOX OF CHOCOLATE
UKU 00414904

RODOVNICA

U Zagrebu, 8.04.2021

KINOLOŠKO DRUŠTVO ĐURĐEVAC

HRVATSKI KINOLOŠKI SAVEZ

ISPIT PRIROĐENIH OSOBINA RETRIVERA

BROJ: 8

Organizator:	K.D. ĐURĐEVAC		
Mjesto:	ĐURĐEVAC	**Datum:**	24.4.2022.
Ime psa:	LARS ANIMA MAGICA		
Pasmina:	LR		
HR 20701	**Oštenjen:** 7.2.2021	**Spol:**	M
Vlasnik:	IVANA VLAŠIĆ		
Adresa vlasnika:	K. ZVONIMIRA 10 KARLOVAC		
Vodič:			

	ISPITNE DISCIPLINE	OPIS RADA
1	PONAŠANJE NA PUCANJ	KOREKTAN
2	VODLJIVOST	VODLJIV
3	DONOŠENJE PERNATE DIVLJAČI	APORTIRA FAZ
4	DONOŠENJE PATKE IZ DUBOKE VODE	DA — PATKA 12 MOD

USPJEH:

POLOŽIO	✓
~~**NIJE POLOŽIO**~~	—

KINOLOŠKI SUDAC
Petar Klarić
HKS - FCI

1. _____ (sudac) _____ (potpis suca)

2. _____ (sudac) _____ (potpis suca)

EVG molekularna diagnostika d.o.o.
Taborska ulica 8 · 2000 Maribor · Slovenia
+ 386 40 566 273 · info@eurovetgene.com
www.eurovetgene.com

REFERENCE NO.: 2022 - 051913/01

OWNER:
IVANA VLAŠIĆ
KRALJA ZVONIMIRA 10
HR-4700 KARLOVAC
CROATIA

SAMPLE TAKEN BY: SINIŠA DRUGA, DVM

SAMPLE INFORMATION
ANIMAL NAME/LABEL: LARS ANIMA MAGICA
SPECIES: DOG
BREED: LABRADOR RETRIEVER
SEX: MALE
MICROCHIP NO.: 191100002130965
TATOO NO.: NOT PROVIDED
PEDIGREE NO.: HR 20701 LR
SAMPLE TYPE: BLOOD
SAMPLING DATE:

DNA PROFILE REPORT

MARKER	GENOTYPE	MARKER	GENOTYPE
Amelogenin:	Y / X	INRA21:	101 / 101
AHT121:	102 / 104	INU005:	124 / 126
AHT137:	149 / 149	INU030:	144 / 144
AHTh130:	127 / 129	INU055:	208 / 210
AHTh171:	223 / 223	REN105LO3:	235 / 235
AHTh260:	240 / 248	REN162C04:	202 / 204
AHTk211:	95 / 97	REN169D01:	212 / 214
AHTk253:	288 / 288	REN169O18:	168 / 168
CXX0279:	124 / 124	REN247M23:	268 / 268
FH2054:	152 / 152	REN54P11:	226 / 232
FH2848:	232 / 232	REN64E19:	153 / 153

The nomenclature is based on the standard of ISAG Comparison Test of 2015.

AUTHORIZED SIGNATURE:

MARIBOR, 21.10.2022

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HR-4700 KARLOVAC
CROATIA

NAME/LABEL:
LARS ANIMA MAGICA
SPECIES: DOG
BREED: LABRADOR RETRIEVER
SEX: MALE
MICROCHIP NO.: 191100002130965
TATOO NO.: NOT PROVIDED
PEDIGREE NO.: HR 20701 LR

GENETIC REPORT

SAMPLE: BLOOD

SAMPLE TAKEN BY: SINIŠA DRUGA, DVM

REQUESTED TEST: D LOCUS (D1)

RESULT: D/D

COMMENT :

Locus D is examined for MLPH gene mutation (c.22G>A) or d allele that causes coat colour dillution and is inherited autosomal recessive.

The dog has two copies of dominant D allele therefore the coat colour is undiluted. The dog is homozygous for D allele and will always transfer one copy of this allele to its offspring. Due to dominance of D allele the entire offspring will express normal undiluted coat colour.

For additional information we are available on our phone during working days between 9 a.m. and 3 p.m. or e-mail.

AUTHORIZED SIGNATURE:

MARIBOR, 21.10.2022

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CROATIA

NAME/LABEL:
LARS ANIMA MAGICA
SPECIES: DOG
BREED: LABRADOR RETRIEVER
SEX: MALE
MICROCHIP NO.: 191100002130965
TATOO NO.: NOT PROVIDED
PEDIGREE NO.: HR 20701 LR

GENETIC REPORT

SAMPLE: BLOOD

SAMPLE TAKEN BY: SINIŠA DRUGA, DVM

REQUESTED TEST: NARCOLEPSY - LABRADOR RETRIEVER

RESULT: CLEAR (WT/WT)

COMMENT :
The test examines presence or absence of HCRTR2 gene mutation (c.1103+5G>A) described as the cause of narcolepsy in Labrador Retrievers. The disease is characterized by daytime sleepiness, cataplexy, and striking transitions from wakefulness into rapid eye movement sleep. Narcolepsy is inherited as an autosomal recessive trait.

Regarding to the presence of tested mutation animals are classified in three groups:

- Clear (wt/wt) - mutation is not present, normal genotype
- Carrier (mut/wt) - one of two alleles carries tested mutation, disease is not clinically manifested
- Affected (mut/mut) - both alleles carry tested mutation, disease is clinically manifested

For each group different breeding strategies should be followed. Breeding of affected and carrier animals should be avoided. If particularly valuable animal is classified as affected, it should be bred only with clear animal. In such case, all first generation siblings will be carriers. If a carrier is bred with clear animal, 50% of siblings are expected to be clear. In case two carriers are bred, 25% of siblings are expected to be clear and 50% are expected to be carriers. However, 25% of siblings are expected to be affected, therefore such breeding practice is discouraged.

AUTHORIZED SIGNATURE:

MARIBOR, 21.10.2022

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CROATIA

NAME/LABEL:
LARS ANIMA MAGICA
SPECIES: DOG
BREED: LABRADOR RETRIEVER
SEX: MALE
MICROCHIP NO.: 191100002130965
TATOO NO.: NOT PROVIDED
PEDIGREE NO.: HR 20701 LR

GENETIC REPORT

SAMPLE: BLOOD

SAMPLE TAKEN BY: SINIŠA DRUGA, DVM

REQUESTED TEST: CENTRONUCLEAR MYOPATHY (CNM)

RESULT: CLEAR (WT/WT)

COMMENT :
The test examines presence or absence of PTPLA gene mutation (c.191_192ins236bp) described as the cause of centronuclear myopathy (CNM) in Labrador Retriever. The disease is characterized by hypotonia, generalized muscle weakness, abnormal postures, stiff hopping gait, exercise intolerance and increased collapse when exposed to cold. CNM is inherited as an autosomal recessive trait.

Regarding to the presence of tested mutation animals are classified in three groups:

- Clear (wt/wt) - mutation is not present, normal genotype
- Carrier (mut/wt) - one of two alleles carries tested mutation, disease is not clinically manifested
- Affected (mut/mut) - both alleles carry tested mutation, disease is clinically manifested

For each group different breeding strategies should be followed. Breeding of affected and carrier animals should be avoided. If particularly valuable animal is classified as affected, it should be bred only with clear animal. In such case, all first generation siblings will be carriers. If a carrier is bred with clear animal, 50% of siblings are expected to be clear. In case two carriers are bred, 25% of siblings are expected to be clear and 50% are expected to be carriers. However, 25% of siblings are expected to be affected, therefore such breeding practice is discouraged.

AUTHORIZED SIGNATURE:

MARIBOR, 21.10.2022

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CROATIA

NAME/LABEL:
LARS ANIMA MAGICA
SPECIES: DOG
BREED: LABRADOR RETRIEVER
SEX: MALE
MICROCHIP NO.: 191100002130965
TATOO NO.: NOT PROVIDED
PEDIGREE NO.: HR 20701 LR

GENETIC REPORT

SAMPLE: BLOOD

SAMPLE TAKEN BY: SINIŠA DRUGA, DVM

REQUESTED TEST: EXCERSISE INDUCED COLLAPSE (EIC)

RESULT: CLEAR (WT/WT)

COMMENT :
The test examines presence or absence of DNM1 gene mutation (c.767G>T) described as the cause of exercise induced collapse (EIC) in several dog breeds. EIC is a syndrome characterized by collapse episodes following strenuous exercise. DNM1 gene defect is inherited as an autosomal recessive trait.

Regarding to the presence of tested mutation animals are classified in three groups:

- Clear (wt/wt) - mutation is not present, normal genotype
- Carrier (mut/wt) - one of two alleles carries tested mutation, disease is not clinically manifested
- Affected (mut/mut) - both alleles carry tested mutation, disease is clinically manifested

For each group different breeding strategies should be followed. Breeding of affected and carrier animals should be avoided. If particularly valuable animal is classified as affected, it should be bred only with clear animal. In such case, all first generation siblings will be carriers. If a carrier is bred with clear animal, 50% of siblings are expected to be clear. In case two carriers are bred, 25% of siblings are expected to be clear and 50% are expected to be carriers. However, 25% of siblings are expected to be affected, therefore such breeding practice is discouraged.

AUTHORIZED SIGNATURE:

MARIBOR, 21.10.2022

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Results are valid for laboratory analysed samples only. Accuracy of the data about animal identity is the sole responsibility of the customer/owner. Laboratory is not responsible for false results which arise due to inaccurate animal identity data, false sample labels etc. To the extent the law allows, the maximal compensation for potential false result is limited to the invoiced amount. With the test it is not possible to rule out the presence of other genetic changes which might affect the development of the disease. Testing is performed according to the latest scientific knowledge.

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CROATIA

NAME/LABEL:
LARS ANIMA MAGICA
SPECIES: DOG
BREED: LABRADOR RETRIEVER
SEX: MALE
MICROCHIP NO.: 191100002130965
TATOO NO.: NOT PROVIDED
PEDIGREE NO.: HR 20701 LR

GENETIC REPORT

SAMPLE: BLOOD

SAMPLE TAKEN BY: SINIŠA DRUGA, DVM

REQUESTED TEST: RETINAL DYSPLASIA/OCULOSKELETAL DYSPLASIA (RD/OSD)

RESULT: CLEAR (WT/WT)

COMMENT :

The test examines presence or absence of COL9A3 gene mutation (g.49,699,847insG) described as the cause of Retinal Dysplasia/Oculoskeletal Dysplasia (RD/OSD) in Labrador retriever. The disease is characterized by short-limbed dwarfism and ocular defects.

Regarding to the presence of tested mutation animals are classified in three groups:

- Clear (wt/wt) - mutation is not present, normal genotype
- Carrier (mut/wt) - one of two alleles carries tested mutations, partial expression of RD/OSD
- Affected (mut/mut) - both alleles carry tested mutations, full expression of RD/OSD

Carrier dogs typically show symptoms of Retinal Dysplasia - partial expression of RD/OSD. Affected dogs show symptoms of dwarfism and ocular defects - full expression of RD/OSD. Heterozygote animals pass the mutation to their siblings therefore mating of two carriers should be avoided, as 25% of puppies will be affected, 50% of puppies will be carriers and 25% of puppies will be clear.

AUTHORIZED SIGNATURE:

MARIBOR, 21.10.2022

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CROATIA

NAME/LABEL:
LARS ANIMA MAGICA
SPECIES: DOG
BREED: LABRADOR RETRIEVER
SEX: MALE
MICROCHIP NO.: 191100002130965
TATOO NO.: NOT PROVIDED
PEDIGREE NO.: HR 20701 LR

GENETIC REPORT

SAMPLE: BLOOD

SAMPLE TAKEN BY: SINIŠA DRUGA, DVM

REQUESTED TEST: PROGRESSIVE RETINAL ATROPHY (PRA-PRCD)

RESULT: CLEAR (WT/WT)

COMMENT :
The test examines presence or absence of PRCD gene mutation (c.5G>A) described as the cause of one form of progressive retinal atrophy (PRA) in several dog breeds. PRA-PRCD is a late onset disease characterized by progressive degeneration of retinal cells. PRCD gene defect is inherited as an autosomal recessive trait.

Regarding to the presence of tested mutation animals are classified in three groups:

- Clear (wt/wt) - mutation is not present, normal genotype
- Carrier (mut/wt) - one of two alleles carries tested mutation, disease is not clinically manifested
- Affected (mut/mut) - both alleles carry tested mutation, disease is clinically manifested

For each group different breeding strategies should be followed. Breeding of affected and carrier animals should be avoided. If particularly valuable animal is classified as affected, it should be bred only with clear animal. In such case, all first generation siblings will be carriers. If a carrier is bred with clear animal, 50% of siblings are expected to be clear. In case two carriers are bred, 25% of siblings are expected to be clear and 50% are expected to be carriers. However, 25% of siblings are expected to be affected, therefore such breeding practice is discouraged.

AUTHORIZED SIGNATURE:

MARIBOR, 21.10.2022

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OWNER:
IVANA VLAŠIĆ
KRALJA ZVONIMIRA 10
HR-4700 KARLOVAC
CROATIA

DATE:21.10.2022

TEST REPORT NO. 209045

TEST: HEREDITARY NASAL PARAKERATOSIS (HNPK)

MUTATION: c.972 T>G in SUV39H2 gene

RESULT: CLEAR (NORMAL/NORMAL)

ANIMAL NAME: LARS ANIMA MAGICA

SPECIES: DOG

BREED: LABRADOR RETRIEVER

MICROCHIP NO.: 191100002130965

PEDIGREE NO.: HR 20701 LR

SAMPLE TYPE: BLOOD

SAMPLE TAKEN BY: SINIŠA DRUGA, DVM

RESULT COMMENT:

Clear (normal/normal): tested mutation is not present, normal genotype.

Carrier (normal/mutation): one allele carries tested mutation, disease is not clinically manifested.

Affected (mutation/mutation): both alleles carry tested mutation, disease is clinically manifested.

AUTHORIZED SIGNATURE:

Results are valid for laboratory analysed samples only.

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CROATIA

NAME/LABEL:
LARS ANIMA MAGICA
SPECIES: DOG
BREED: LABRADOR RETRIEVER
SEX: MALE
MICROCHIP NO.: 191100002130965
TATOO NO.: NOT PROVIDED
PEDIGREE NO.: HR 20701 LR

GENETIC REPORT

SAMPLE: BLOOD

SAMPLE TAKEN BY: SINIŠA DRUGA, DVM

REQUESTED TEST: SKELETAL DYSPLASIA 2 (SD2) - DWARFISM

RESULT: CLEAR (WT/WT)

COMMENT :
The test examines presence or absence of COL11A2 gene mutation (c.143G>C) described as the cause of skeletal dysplasia 2 (SD2) in Labrador Retriever. The disease is characterized by a very subtle phenotype where mild dwarfism with short-legged phenotype is observed. COL11A2 gene defect is inherited as an autosomal recessive trait.

Regarding to the presence of tested mutation animals are classified in three groups:

- Clear (wt/wt) - mutation is not present, normal genotype
- Carrier (mut/wt) - one of two alleles carries tested mutation, disease is not clinically manifested
- Affected (mut/mut) - both alleles carry tested mutation, disease is clinically manifested

For each group different breeding strategies should be followed. Breeding of affected and carrier animals should be avoided. If particularly valuable animal is classified as affected, it should be bred only with clear animal. In such case, all first generation siblings will be carriers. If a carrier is bred with clear animal, 50% of siblings are expected to be clear. In case two carriers are bred, 25% of siblings are expected to be clear and 50% are expected to be carriers. However, 25% of siblings are expected to be affected, therefore such breeding practice is discouraged.

AUTHORIZED SIGNATURE:

MARIBOR, 21.10.2022

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