# The American Kennel Club · Founded 1884

# LITTER CERTIFICATE

Breeder ~ ARTHUR HESS
Whelp Date ~ AUGUST 11, 2016
AKC Litter Number ~ SR946748
Breed ~ GOLDEN RETRIEVER
Total Number in Litter ~ 10

**Sire** SIMON GHOST WHISPER MCRAY GOLDENS
SR77408207 (07-15)

BOW MAN'S WHITE GHOST
SR72872702 (08-13)

POETRYS GOLDEN OPPORTUNITY
SR66350305 (08-12)

POETRYS IM A WORKING GIRL
SR67112203 (08-12)

JONNA'S WHITE GHOST
SR63613802 (01-12)

GOLDY GOLDEN GEAR
SR40151002 (07-09)

GOOBIE GANIA GASE
SR43327805 (04-10)

AMERICAN KENNEL CLUB®

**Dam** GSR HONEY ANGEL
SR78903603 (11-16)

GSR'S STRUT N' MY STUFF
SR71542801 (11-13)

GAZEBO'S BAD TO THE BONE
SR46942001 (04-11)

GOLDEN DAYS SMASHBOX PHOTO FINISH
SR54135301 (04-11)

GSR'S SHE'S GOT CHARISMA
SR70365004 (11-13)

MICIN'S BEST FITTING JEANS AT GAZEBO
SR60554202 (06-11)

TOPBRASS ITZ ALL ABOUT ME
SR47043601 (03-10)

The Seal of the American Kennel Club affixed hereto certifies that this Litter Certificate was compiled from official Stud Book records on August 29, 2016.

# AMERICAN KENNEL CLUB

NAME
SUGAR SPICE THE SECOND

NUMBER
SR94674810

BREED
GOLDEN RETRIEVER

SEX
FEMALE

COLOR
LIGHT GOLDEN

DATE OF BIRTH
AUGUST 11, 2016

SIRE
SIMON GHOST WHISPER MCRAY GOLDENS CGC ~ SR77408207 07-15 OFA28G OFEL28 AKC DNA #V756895

DAM
GSR HONEY ANGEL
SR78903603 11-16 OFA25G OFEL25

BREEDER
ARTHUR HESS

OWNER

ARTHUR HESS
2953 S HILL RD
MILFORD MI 48381-3415

AMERICAN KENNEL CLUB®

CERTIFICATE ISSUED
NOVEMBER 29, 2016

*This certificate invalidates all previous certificates issued.*

If a date appears after the name and number of the sire and dam, it indicates the issue of the Stud Book Register in which the sire or dam is published.

**For Transfer Instructions, see back of Certificate.**

*This Certificate issued with the right to correct or revoke by the American Kennel Club.*

# REGISTRATION CERTIFICATE

AIS PennHIP
(877) 727-6800 www.antechimagingservices.com

Owner's Copy

## PennHIP Report

**Referring Veterinarian:** Dr William Schultz
**Email:** joe.schultzvet@gmail.com

**Clinic Name:** Schultz Veterinary Clinic
**Clinic Address:** 2770 Bennett Road
Okemos, MI 48864
**Phone:** (517) 337-4800
**Fax:**(517) 337-1874

## Patient Information

**Client:** HESS, ARTHUR
**Patient Name:** SUGAR
**Reg. Name:** SUGAR SPICE THE SECOND
**PennHIP Num:** 121199
**Species:** Canine
**Date of Birth:** 11 Aug 2016
**Sex:** Female
**Date of Study:** 07 Aug 2018
**Date of Report:** 17 Aug 2018

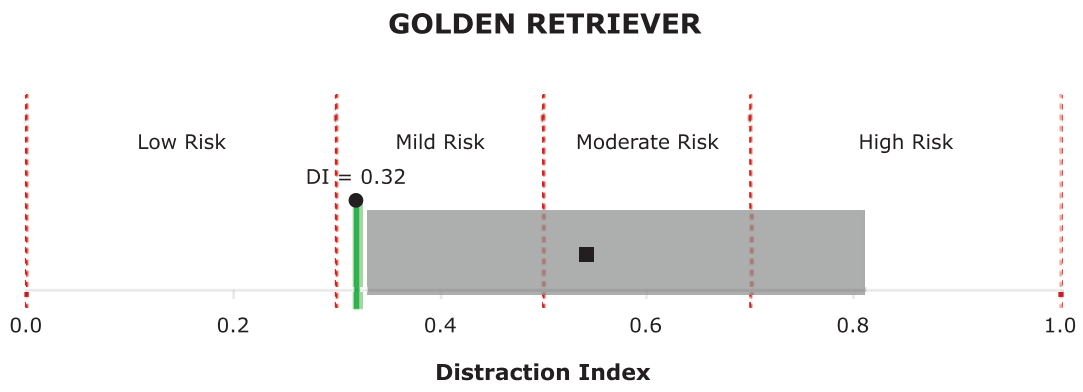
**Tattoo Num:**
**Patient ID:** 14193-37000
**Registration Num:** SR94674810
**Microchip Num:** 985112005464666
**Breed:** GOLDEN RETRIEVER
**Age:** 24 months
**Weight:** 63.8 lbs/28.9 kgs
**Date Submitted:** 16 Aug 2018

## Findings

**Distraction Index (DI):**Right DI = 0.32, Left DI = 0.27.
**Osteoarthritis (OA):**No radiographic evidence of OA for either hip.
**Cavitation/Other Findings:**None.

## Interpretation

**Distraction Index (DI):**The laxity ranking is based on the hip with the greater laxity (larger DI). In this case the DI used is 0.32.
**OA Risk Category:**The DI is between 0.31 and 0.49. This patient is at mild risk for hip OA.
**Distraction Index Chart:**




**Breed Statistics:**This interpretation is based on a cross-section of 19170 canine patients of the GOLDEN RETRIEVER breed in the AIS PennHIP database. The gray strip represents the central 90% range of DIs (0.33 - 0.81) for the breed. The breed average DI is 0.54 (solid square). The patient DI is the solid circle (0.32).
**Summary:**The degree of laxity (DI = 0.32) ranks the hip within the tightest 5% of DIs for the breed. This amount of hip laxity places the hip at a mild risk to develop hip OA. No radiographic evidence of OA for either hip.
**Interpretation and Recommendations:**No OA/Mild Risk: Low risk to develop radiographic evidence of hip OA early in life, however OA may manifest after 6 years of age or later. Risk of OA increases as DI, age, body weight, and activity level increase. OA susceptibility is breed specific, larger breeds being more susceptible. **Recommendations:** Evidence-based strategies to lower the risk of dogs developing hip OA or to treat those having OA fall into 5 modalities.* For

detailed information, consult these documents.* Use any or all of these modalities as needed:
1) For acute or chronic pain prescribe NSAID PO short or long term. Amantadine can be added if response is marginal or if a neuropathic component to the pain is suspected.
2) Optimize body weight, keep lean, at BCS = 5/9.
3) Prescribe therapeutic exercise at intensities that do not precipitate lameness.
4) Administer polysulfated glycosaminoglycans IM or SQ, so-called DMOAD.
5) Feed an EPA-rich prescription diet preventatively for dogs at risk for OA or therapeutically for dogs already showing radiographic signs of OA.
At the present time there is inadequate evidence to confidently recommend any of the many other remedies to prevent or treat OA. Studies are in progress. Consider repeating radiographs at periodic intervals to determine the rate of OA progression and adjust treatment accordingly. Older dogs may show clinical signs such as chronic pain, reluctance to go stairs or jump onto the bed, and stiffness particularly after resting. It is unlikely that end-stage hip disease will develop for dogs at this risk level so surgical therapy for the pain of hip OA would rarely be indicated.
**Breeding Recommendations:** Please consult the PennHIP Manual.

* From WSAVA Global Pain Council Guidelines and the 2015 AAHA/AAFP Pain Management Guidelines

# ORTHOPEDIC FOUNDATION FOR ANIMALS, INC.

SUGAR SPICE THE SECOND
*registered name*

GOLDEN RETRIEVER
*breed*

985112005464666
*tattoo/microchip/DNA profile*

2017017
*application number*

11/20/2018
*date of report*

SR94674810
*registration no.*

F
*sex*

8/11/2016
*date of birth*

26
*age at evaluation in months*

GR-CA33929/26F-VPI
*O.F.A. NUMBER*

*This number issued with the right to correct or revoke by the Orthopedic Foundation for Animals.*

A Not-For-Profit Organization

*RESULTS:*
The results of the examination submitted to OFA indicate that no evidence of congenital cardiac disease was recognized.

NORMAL

owner

ARTHUR HESS
2953 SOUTH HILL RD
MILFORD, MI 48381

G.G.KELLER. D.V.M., M.S., DACVR
CHIEF OF VETERINARY SERVICES

www.ofa.org

# ORTHOPEDIC FOUNDATION FOR ANIMALS, INC.

SUGAR SPICE THE SECOND
*registered name*

GOLDEN RETRIEVER
*breed*

651913
*film/test/lab #*

985112005464666
*tattoo/microchip/DNA profile*

2017017
*application number*

4/9/2020
*date of report*

SR94674810
*registration no.*

F
*sex*

8/11/2016
*date of birth*

43
*age at evaluation in months*

A Not-For-Profit Organization

GR-EYE20067/43F-VPI
*O.F.A. NUMBER*

*This number issued with the right to correct or revoke by the Orthopedic Foundation for Animals.*

*RESULTS:*
Based upon the exam dated 3/26/2020, this dog has been found to be free of observable inherited eye disease and has been issued an Eye Certification Registry Number which is valid for one year from the time of the exam.

owner

DEBBIE HESS
ARTHUR HESS
2953 S HILL RD
MILFORD, MI 48381

OFA Certificate
Verify with QR Scan

G.G.KELLER. D.V.M., M.S., DACVR
CHIEF OF VETERINARY SERVICES

www.ofa.org

Paw Print Genetics
A division of Genetic Veterinary Sciences, Inc.

# Canine Genetic Health Certificate™

| | | | |
|---|---|---|---|
| **Call Name:** | sugar spice | **Laboratory #:** | 108654 |
| **Registered Name:** | Sugar Spice the Second | **Registration #:** | SR94674810 |
| **Breed:** | Golden Retriever | **Microchip #:** | 985112005464666 |
| **Sex:** | Female | **Certificate Date:** | Oct. 31, 2018 |
| **DOB:** | Aug. 2016 | | |

**This canine's DNA showed the following genotype(s):**

| Disease | Gene | Genotype | Interpretation |
|---|---|---|---|
| Degenerative Myelopathy | *SOD1* | WT/WT | Normal (clear) |
| Ichthyosis (Golden Retriever Type) | *PNPLA1* | WT/WT | Normal (clear) |
| Progressive Retinal Atrophy, Golden Retriever 1 | *SLC4A3* | WT/WT | Normal (clear) |
| Progressive Retinal Atrophy, Golden Retriever 2 | *TTC8* | WT/WT | Normal (clear) |
| Progressive Retinal Atrophy, Progressive Rod-Cone Degeneration | *PRCD* | WT/WT | Normal (clear) |

WT, wild type (normal); M, mutant; Y, Y chromosome (male)

**Christina J Ramirez, PhD, DVM, DACVP**
Medical Director

**Casey R Carl, DVM**
Associate Medical Director

Paw Print Genetics® performed the tests listed on this dog. See the Laboratory Report for interpretation and recommendations based on these findings. The genes/diseases reported here were selected by the client. Normal results do not exclude inherited mutations not tested in these or other genes that may cause medical problems or may be passed on to offspring. These tests were developed and their performance determined by Paw Print Genetics. This laboratory has established and verified the tests' accuracy and precision. Because all tests performed are DNA-based, rare genomic variations may interfere with the performance of some tests producing false results. If you think these results are in error, please contact the laboratory immediately for further evaluation. In the event of a valid dispute of results claim, Paw Print Genetics will do its best to resolve such a claim to the customer's satisfaction. If no resolution is possible after investigation by Paw Print Genetics with the cooperation of the customer, the extent of the customer's sole remedy is a refund of the fee paid. In no event shall Paw Print Genetics be liable for indirect, consequential or incidental damages of any kind. Any claim must be asserted within 60 days of the report of the test results. Genetic counseling is available at Paw Print Genetics.

# DNA Test Report

## Dog Information

**Sugar**
NAME

**Female**
SEX

**Golden Retriever**
GENETIC BREED

**August 11th, 2016**
DATE OF BIRTH

**AKC: SR94674810**
REGISTRATION

**n/a**
MICROCHIP

**Arthur Hess**
OWNER NAME

**Canine Genetic Health Screen**
TEST

**May 25th, 2019**
TEST DATE

## BREED HEALTH TESTS

| DISEASE | GENE | GENOTYPE | RESULT | |
|---|---|---|---|---|
| Degenerative Myelopathy | SOD1 | GG | Clear | |
| Golden Retriever Progressive Retinal Atrophy 1 | SLC4A3 Exon 16 | NN | Clear | |
| Golden Retriever Progressive Retinal Atrophy 2 | TTC8 Exon 8 | NN | Clear | |
| Ichthyosis | PNPLA1 (Exon 8) | AAC/AAC | Clear | |
| Muscular Dystrophy | DMD | AA | Clear | |
| Progressive Retinal Atrophy - prcd | PRCD Exon 1 | GG | Clear | |
| Dystrophic Epidermolysis Bullosa | COL7A1 (Exon 68) | GG | Clear | |
| Neuronal Ceroid Lipofuscinosis | CLN5 (Exon 4 Deletion) | NN | Clear | |
| Osteogenesis Imperfecta, Brittle Bone Disease | COL1A1 (Exon 18) | GG | Clear | |

# DNA Test Report

## Dog Information

**Sugar**
NAME

## TRAIT TESTS (1/2)

| Coat Color | | RESULT |
|---|---|---|
| E Locus (MC1R) | No dark hairs anywhere | ee |
| K Locus (CBD103) | Not expressed | $K^BK^B$ |
| A Locus (ASIP) | Not expressed | $a^ta$ |
| D Locus (MLPH) | Not expressed | DD |
| B Locus (TYRP1) | Likely black colored nose/feet | BB |
| Saddle Tan (RALY) | Not expressed | NN |
| M Locus (PMEL) | No merle alleles | mm |

| Other Coat Traits | | RESULT |
|---|---|---|
| Furnishings (RSPO2) LINKAGE | Likely unfurnished (no mustache, beard, and/or eyebrows) | II |
| Coat Length (FGF5) | Likely long coat | TT |
| Shedding (MC5R) | Likely light to moderate shedding | TT |
| Coat Texture (KRT71) | Likely straight coat | CC |
| Hairlessness (SGK3) | Very unlikely to be hairless | NN |
| Hairlessness (FOXI3) LINKAGE | Very unlikely to be hairless | NN |
| Oculocutaneous Albinism Type 2 (SLC45A2) LINKAGE | Likely not albino | NN |

| Other Body Features | | RESULT |
|---|---|---|
| Muzzle Length (BMP3) | Likely medium or long muzzle | CC |
| Tail Length (T) | Likely normal-length tail | CC |

# DNA Test Report

## Dog Information

**Sugar**
NAME

## TRAIT TESTS (2/2)

| Body Size | | RESULT |
|---|---|---|
| Body Size (IGF1) | Larger | NN |
| Body Size (IGFR1) | Larger | GG |
| Body Size (STC2) | Larger | TT |
| Body Size (GHR - E195K) | Larger | GG |
| Body Size (GHR - P177L) | Larger | CC |

| Performance | | RESULT |
|---|---|---|
| Altitude Adaptation (EPAS1) | Normal altitude tolerance | GG |

| Genetic Diversity | RESULT |
|---|---|
| Coefficient Of Inbreeding | 21% |
| MHC Class II - DLA DRB1 | High Diversity |
| MHC Class II - DLA DQA1 and DQB1 | High Diversity |