LABOKLIN
LABOR FÜR KLINISCHE DIAGNOSTIK GMBH & CO. KG

LABOKLIN GmbH&CoKG . Postfach 1810 . DE-97668 Bad Kissingen

Tierarztpraxis
Nina Küke
Döllnitz Industriegebiet 12
92690 Pressath
Deutschland

Untersuchungsbefund
Nr.: 1904-W-23129
Probeneingang: 25-04-2019
Untersuchungsbeginn: 25-04-2019
Datum Befund: 30-04-2019
Untersuchungsende: 30-04-2019

Angaben zum Patienten:	Pferd Quarter Horse	männlich	* 01.05.17
Patientenbesitzer:	Pieper, Petra		
Probenmaterial:	EDTA-Blut		
Probenentnahme:	24-04-2019		

Name: **Resolve as Einstein**
Lebensnummer: ---
Chip-Nummer: ---
Tattoo-Nummer: ---

Immune Mediated Myositis & MYH1 Myopathy (MYHM) - PCR

Ergebnis: Genotyp N/N

Interpretation: Das untersuchte Tier ist reinerbig (homozygot) für das Wildtyp-Allel. Es trägt somit nicht die ursächliche Mutation für MYHM im MYH1-Gen.

Erbgang: autosomal-dominant mit variabler Penetranz

Eine Korrelation zwischen dieser Mutation und der Erkrankung wurde bisher bei folgenden Rassen beschrieben: Quarter Horse

Das Ergebnis gilt nur für das im Labor eingegangene Probenmaterial. Die Verantwortung für die Richtigkeit der Angaben zu den eingesandten Proben liegt beim Einsender. Gewährleistungsverpflichtungen dafür können nicht übernommen werden. Schadensersatzverpflichtungen sind, soweit gesetzlich zulässig, auf den Rechnungswert der durchgeführten Untersuchung/en beschränkt, im Übrigen haften wir nur für Vorsatz und grobe Fahrlässigkeit, soweit gesetzlich möglich.

Befund-Nr.: 1904-W-23129

LABOKLIN
LABOR FÜR KLINISCHE DIAGNOSTIK GMBH & CO. KG

Weitere Genveränderungen, die ebenfalls die Ausprägung der Erkrankung/Merkmale beeinflussen können, können nicht ausgeschlossen werden. Die Untersuchung/en erfolgte/n nach dem derzeitigen allgemeinen wissenschaftlichen Kenntnisstand.

Das Labor ist für die auf diesem Befund aufgeführten Untersuchungen akkreditiert nach DIN EN ISO/IEC 17025:2005 (ausgenommen Partnerlabor-Leistungen).

Kurierkosten-Anteil

*** ENDE des Befundes ***

Fr.Dipl.-Biol. Bärbel Gunreben
Abt. Molekularbiologie

Rechnungsbetrag netto EUR 38.01
Eine Rechnungserstellung erfolgt separat an Praxis

UNIVERSITY OF CALIFORNIA, DAVIS

BERKELEY • DAVIS • IRVINE • LOS ANGELES • MERCED • RIVERSIDE • SAN DIEGO • SAN FRANCISCO SANTA BARBARA • SANTA CRUZ

VETERINARY GENETICS LABORATORY
SCHOOL OF VETERINARY MEDICINE
ONE SHIELDS AVENUE
DAVIS, CALIFORNIA 95616-8744

TELEPHONE: (530) 752-2211
FAX: (530) 752-3556

AQHA GENETIC DISEASE PANEL TEST RESULTS

AMERICAN QUARTER HORSE ASSOCIATION
P.O. BOX 200
AMARILLO, TX 79168-0001

Case: **QHA306163**
Date Received: 19-Jun-2017
Print Date: 23-Jun-2017
Report ID: 1659-7770-8954-4119
Verify report at www.vgl.ucdavis.edu/myvgl/verify.html

Horse: **00023400319** *Reg:*

YOB: ***2017*** *Sex:* ***Stallion*** *Breed:* ***Quarter Horse*** *Alt. ID:* ***6842829***

Sire: EINSTEINS REVOLUTION *Reg:* 4281862
Dam: CHARLEYS SMART MISS *Reg:* 4880907

GBED	**N/N**	N/N - Normal - Does not possess the disease-causing GBED gene
HERDA	**N/N**	N/N - Normal - horse does not have the HERDA gene
HYPP	**N/N**	N/N - Normal - Does not possess the disease-causing HYPP gene
MH	**N/N**	N/N - Normal - horse does not have the MH gene
PSSM1	**N/N**	N/N - Normal - horse does not have the PSSM1 gene

GBED - Glycogen Branching Enzyme Deficiency. Fatal disease of newborn foals caused by defect in glycogen storage. Affects heart and skeletal muscles and brain. Inherited as recessive disease.

HERDA - Hereditary Equine Regional Dermal Asthenia. Skin disease characterized by hyperextensible skin, scarring, and severe lesions along the back of affected horses. Typical onset is around 2 years of age. Inherited as a recessive disease.

HYPP - Hyperkalemic Periodic Paralysis. Muscle disease caused by defect in sodium channel gene that causes involuntary muscle contraction and increased level of potassium in blood. Inherited as dominant disease. Two copies of defective gene produce more severe signs than one copy.

MH - Malignant Hyperthermia. Rare but life-threatening skeletal muscle disease triggered by exposure to volatile anesthetics (halothane), depolarizing muscle relaxants (succinylcholine), and stress. Presumed inheritance as dominant disease.

PSSM1 - Polysaccharide Storage Myopathy Type 1. Muscle disease characterized by accumulation of abnormal complex sugars in skeletal muscles. Signs include muscle pain, stiffness, skin twitching, sweating, weakness and reluctance to move. Inherited as a dominant disease.

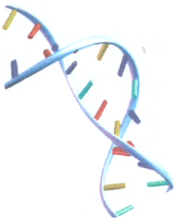
GBED testing performed under a license agreement with the University of Minnesota.
HERDA testing performed under a license agreement with the University of California, Davis.
PSSM1 testing performed under a license agreement with the American Quarter Horse Association.

AnimalGenetics INCORPORATED
1336 Timberlane Road
Tallahassee, FL 32312-1766

Generated On: 6/25/2017

Equine Genetic Testing Report

Submitted By
Petra Pieper Glashuette 1 Pressath, 92690 Germany



Date Received: 6/20/2017

Subject Horse

Horse Name: **Resolve As Einstein**
Breed: Quarter Horse
Phenotype: Dun-Bay Dun
Sex: Stallion

Lab Reference #: 00096504
Registration:
Birth: 2017

Sire

Sire Name: Einsteins Revolution
Breed: Quarter Horse
Registration: 4281862
Phenotype: Dun

Dam

Dam Name: Charleys Smart Miss
Breed: Quarter Horse
Registration: 4880907
Phenotype: Buckskin

Coat Color and Pattern Testing

	Tobiano		Not Tested
	Frame Overo		Not Tested
	Sabino 1		Not Tested
	Splashed White 1		Not Tested
	Splashed White 2		Not Tested
	Splashed White 3		Not Tested
	Appaloosa (LP)		Not Tested
	PATN1		Not Tested
X	Red/Black Factor	Ee	Heterozygous. Horse is Black based but carries a recessive copy of the Red gene.
X	Agouti	Aa	Heterozygous. Horse carries one copy of the Agouti gene.
X	Cream Dilution	nn	Negative for Cream Dilution.
X	Dun Dilution	dd	Negative for currently known markers associated with Dun Dilution.
X	Silver Dilution	nn	Negative for Silver Dilution.
X	Champagne	nn	Negative for Champagne Dilution.
X	Pearl Dilution	nn	Negative for Pearl Dilution.
	Gray		Not Tested

Genetic Disorders

	HYPP		Not Tested
	HERDA		Not Tested
	GBED		Not Tested
	MH		Not Tested
	PSSM 1		Not Tested
	FIS		Not Tested
	JEB1		Not Tested
	JEB2		Not Tested
	CA		Not Tested
	LFS		Not Tested
	SCID		Not Tested
	Hydrocephalus		Not Tested
	HWSD		Not Tested
	WFFS1		Not Tested

Genetic Marker Results

Run Date: Not Tested

-	-	-	-	-	-	-
AHT4	AHT5	ASB17	ASB2	ASB23	AME	CA425UK
-	-	-	-	-	-	-
HMS3	HMS6	HMS7	HTG10	HTG4	LEX3	LEX33
-	-	-	-	-	-
VHL20	UM011	HMS1	HMS2	HTG6	HTG7

Additional Comments

None