UNIVERSITY OF CALIFORNIA, DAVIS

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SANTA BARBARA . SANTA CRUZ

AQHA GENETIC DISEASE PANEL TEST RESULTS

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

Case:

QHA263922

Date Received:

13-Sep-2016

Print Date:

20-Sep-2016

Report ID:

2447-7635-7222-1104 Verify report at www.vgl.ucdavis.edu/myvgl/verify.html

Horse: 00011999567

Reg:

YOB: 2016 Sex: Stallion Breed: Quarter Horse Alt. ID: 6771216

Sire: BET HESA CAT

Reg: 4809494

Reg: 4111229

Dam: RJJ MISS VIAGRA PEP

GBED	N/N
HERDA	N/N
НҮРР	N/N
MH .	N/N
PSSM1	N/N

N/N - Normal - Does not possess the disease-causing GBED gene

N/N - Normal - horse does not have the HERDA gene

N/N - Normal - Does not possess the disease-causing HYPP gene

N/N - Normal - horse does not have the MH gene

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 Hyperthennia. 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.



MYOSIN-HEAVY CHAIN MYOPATHY (MYHM) **GENETIC TEST REPORT**

Provided Information:

Name:

HESA DUAL BET

Registration:

5751844

Case:

NQ87016

Date Received: Report Issue Date: 26-Sep-2022 07-Oct-2022

Report ID:

9234-2447-4829-0097

Verify report at www.vgl.ucdavis.edu/verify

Sex: Stallion Breed: Quarter Horse

RESULT

INTERPRETATION

Myosin-Heavy Chain Myopathy (MYHM)

N/N

No copies of the MYHM mutation. Horse does not have increased susceptibility for IMM or nonexertional rhabdomyolysis.