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

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AQHA GENETIC DISEASE PANEL TEST RESULTS

AMERICAN QUARTER HORSE ASSOCIATION P.O. BOX 200

AMARILLO, TX 79168-0001

Case:

QHA351340

Date Received:

23-Apr-2018

Print Date:

28-Apr-2018

Report ID:

1687-9884-0535-8115

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

Horse: SMOOTH AUTUMN BLUE

Reg: 5573409

YOB: 2013 Sex: Mare Breed: Quarter Horse Alt. ID: 6544940

Sire: SMOOTH AS A CAT

Reg: 3808235

Reg: 4210858

Dam: AUTUMN BOON

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

GBED	N/N	
HERDA	N/N	
HYPP	N/N	
МН	N/N	
PSSM1	N/N	

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

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. Musele 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 anestheries (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.