



VETERINARY GENETICS LABORATORY  
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## AQHA GENETIC DISEASE PANEL TEST RESULTS

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

**Case:** QHA64918  
**Date Received:** 31-Jul-2012  
**Report Date:** 03-Aug-2012  
**Report ID:** 0860-4147-6780-5164  
Verify report at <https://www.vgl.ucdavis.edu/myvgjverify.html>

**Horse:** XLENT POTENTIAL

**Reg:** 5358974

**YOB:** 11

**Breed:** QH

**Sex:** M

**Alt. ID:** 6302772

**Sire:** POTENTIAL ASSET

**Reg:** 3677854

**Dam:** HF MISTY SCOTCH PINE

**Reg:** 4337909

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 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 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.