

Jodie & Warren Woroniecki 7075 28th St. Hebron, ND 58638 701-878-4088 Check us out online at---www.WoronieckiRanchQuarterHorses.com
Or email, call or stop by the ranch.
woronieckiranch@westriv.com

5 Panel Information as it Pertains to Woroniecki Ranch Quarter Horses

At Woroniecki Ranch Quarter Horses we order a genetic kit through AQHA and the results are sent to VGL laboratory of the School of Veterinary Medicine at the University of California, Davis. VGL is internationally recognized as a pioneer and expert in DNA-based animal testing. The effects of these equine diseases are wide-ranging, from mild and manageable to severe and terminal. We have compiled a short description of each disorder tested. In many instances we only test the necessary specific test based upon the parents test results. If both parents are N/N on all or some diseases then the offspring is also N/N on those diseases by default. Please see ALL PAGES of this document link.

Glycogen Branching Enzyme Deficiency (GBED) doesn't allow a foal to store enough sugar in its cells for energy, function of the brain, heart and skeletal muscles. Most die within couple weeks of age, but none have been known to survive more than 2 months of age. These foals are often still born. GBED is a recessive trait and only horses that inherit both recessive genes from each parent (G/G) will be afflicted. Carriers (N/G) and non-carriers (N/N) will have no problems in their lives as they will NOT be afflicted at all and they will be able to perform all performance activities. If deciding to breed a carrier (N/G) it is highly advised to not breed to another carrier to avoid producing afflicted offspring.

Hereditary Equine Regional Dermal Asthenia (HERDA) causes the skin on a horse's back to literally peel away. The skin will slough becoming loose and tented to never return to its original position. HERDA is a recessive trait and only horses that inherit both recessive genes from each parent (HDR/HDR) will be afflicted. Carries (N/HDR) and non-carries (N/N) will have no problems in their lives as they will NOT be afflicted at all and they will be able to perform all performance activities. If deciding to breed a carrier (N/HDR) it is highly advised to not breed to another carrier to avoid producing afflicted offspring

Hyperkalemic Periodic Paralysis (HYPP) is a muscle condition that leads to weak muscles or severe twitching of the muscles. In most cases symptoms include tremors, weakness, cramping, sweating and inability to relax. In severe cases horse can collapse from a heart attack or respiratory failure and die. HYPP is a dominant trait and carriers (N/H) will be afflicted, but can be managed with careful nutritional care. It is highly recommended NOT to breed a carrier.

Malignant Hyperthermia (MH) is a rare but deadly disorder triggered by the use of anesthesia, muscle relaxant succinylcholine and stress. The horse will often experience high heart rate along with rapid breathing and extreme fever. This can also lead to death in some cases. Some horses are also a carrier of PSSM along with MH. MH is a dominant trait and carriers will be afflicted if undergoing surgery or extreme stress. It is highly recommended NOT to breed a carrier.

Polysaccharide Storage Myopathy (PSSM1) is when the muscles store too much glycogen causing muscle stiffness and muscle tying up. Most horses experience pain with strenuous exercise. PSSM1 is a dominant trait but carriers (N/PSSM1) can be managed with proper diet and exercise. It is highly recommended NOT to breed a carrier.

Shrimp Bartender JW (AQHA)

2022 Sorrel/Red Roan Stallion

GBED Status N/N

HERDA Status N/N

HYPP Status N/N

MH Status N/N

PSSM1 Status N/N

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



SANTA HARBARA . SANTA CRUZ

FAX: (530) 752-3556

AQHA GENETIC DISEASE PANEL TEST RESULTS

AMERICAN QUARTER HORSE ASSOCIATION P.O. BOX 200

AMARILLO, TX 79168-0001

Case: QHA168729

Date Received:

04-Dec-2014

Print Date: Report ID: 08-Dec-2014

ort ID: 0461-4992-5772-4006 Verify report at www.vgl.ucdavis.edu/myvgl/verify.html

Horse: JACKS OUR BARTENDER

Reg: 4425254

YOB: 2003

Breed: QH Sex: S

Alt. ID:5198859

Sire: BARTENDERS MEMORY

Reg: 3736501

Dam: WATCH MISS JO JACKIE

Reg: 3301428

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

 GBED
 N/N

 HERDA
 N/N

 HYPP
 N/N

 MH
 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 sewborn feels caused by defect in glycogen storage. Affects heart and skeletal muscles and brain.

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 potatsium 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 (halodnane), depolarizing enuscle relaxants (succinylcholine), and stress. Presumed inheritance as dominant disease.

PSSM1 - Polysacobaride Storage Myopathy Type 1. Muscle disease characterized by accumulation of abnormal complex segars 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,



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Polysaccharide Storage Myopathy (PSSM1) is when the muscles store too much glycogen causing muscle stiffness and muscle tying up. Most horses experience pain with strenuous exercise. PSSM1 is a dominant trait but carriers (N/PSSM1) can be managed with proper diet and exercise. It is highly recommended NOT to breed a carrier.

Paddys Gin Bay JW 2015 Bay Filly		(AQHA 5670543)	1202	
		THE PROPERTY OF THE PROPERTY O		
GBED Status	N/N			
HERDA Status	N/N			
HYPP Status	N/N			
MH Status	N/N			
PSSM1 Status	N/N			

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AQHA GENETIC DISEASE PANEL TEST RESULTS

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

Case:

QHA192967

Date Received:

11-May-2015

Print Date:

15-May-2015

Report ID:

5224-0099-7667-9013 Verify report at www.vgl.ucdavis.edu/myvgl/verify.htm

Horse: TRR PADDYS TEXAS GIN

Reg: 4801457

YOB: 2006 Sex: Stallion Breed: Quarter Horse Alt. ID: 5641519

Sire: PADDYS IRISH WHISKEY

Reg: 2983308

Dam: TRR MISS BAY GIN

Reg. 4163196

N/N GBED N/HRD HERDA N/N HYPP MH N/N

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

N/HRD - Carrier - horse carries one copy of 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 PSSM1

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.

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AQHA GENETIC DISEASE PANEL TEST RESULTS

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

Case:

QHA199440

Date Received:

06-Jul-2015

Print Date:

10-Jul-2015

Report ID:

5574-5550-7051-1051

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

Reg: 5188428

Horse: MY KITTYS MELODY JW

YOB: 2009 Sex: Mare Breed: Quarter Horse Alt. ID: 6080204

Sire: JK JAY REED Dam: MY LITTLE KITTY Reg: 3516678

Reg: 2894154

GBED	N/N	N/N - Norm
HERDA	N/N	N/N - Norm
НҮРР	N/N	N/N - Norm
МН	N/N	N/N - Norm
PSSM1	N/N	N/N - Norm

nal - Does not possess the disease-causing GBED gene

nal - horse does not have the HERDA gene

nal - Does not possess the disease-causing HYPP gene

nal - horse does not have the MH gene

nal - horse does not have the PSSM1 gene

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HERDA TEST RESULT

JODIE WORONIECKI 7075 28TH ST. HEBRON, ND 58638

Case:

NQ25001

Date

01-Jun-2015

Print Date:

11-Jun-2015

Report ID:

7983-6681-4117-7015 vgl.ucdavis.edu/myvgl/verify.html

Verify report at

Name: PADDYS GIN BAY JW

DOB: 04/24/2015 Sex: Mare Breed: Quarter Horse Alt. ID:

Reg: AQHA Pending

....

w:

Sire: TRR PADDYS TEXAS GIN Dam: MY KITTYS MELODY JW Reg: 4801457

Reg: 5188428

HERDA Test Result

N/N

Result Codes:

N/N

Normal - horse does not have the HERDA gene

N/HRD

Carrier - horse carries one copy of the HERDA gene

HRD/HRD

Affected - horse has two copies of the HERDA gene



Hereditary equine regional dermal asthenia (HERDA) is a degenerative skin disease characterized by hyperextensible skin, scarring, and severe lesions along the back of affected horses. Affected foals rarely show symptoms at birth. The condition typically occurs by the age of two, most notably when the horse is first being broke to saddle. HERDA is an autosomal recessive trait which means that breedings between carrier (N/HRD) horses have a 25% chance of producing an affected foal (HRD/HRD). Breedings between carrier and normal (N/N) horses produce normal foals, but 50% of these are expected to be carriers.

This test is specific for the mutation in the cyclophilin B gene (PPIB) that has been shown to be associated with HERDA. For more information go to http://vgl.ucdavis.edu.