

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.

Whiskey Up Shang JW		(AQHA)
2019 Bay Stallie	on	
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

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:

QHA192968

Date Received:

11-May-2015

Print Date:

15-May-2015

Report ID:

0187-9866-2321-9024

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

Horse: WHOOP UP WHISKEY

YOB: 2010 Sex: Stallion Breed: Quarter Horse Alt. ID: 6281311

Reg: 5359075

Sire: PADDYS IRISH WHISKEY Dam: MY LITTLE SUGAR BABE Reg: 2983308 Reg: 3179872

GBED	N/G	
HERDA	N/N	
НҮРР	N/N	
МН	N/N	
PSSM1	N/N	

N/G - Carrier - Heterozygous (one normal and one 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 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.

PSSMI - 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.



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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.

HQ Jacks Rojav		(AQHA 5710687)	NN based upon dam and sire results.	
2015 Sorrel Mare				
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:

QHA168729

Date Received:

04-Dec-2014

Print Date:

08-Dec-2014

Report ID:

0461-4992-5772-4006

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

Horse: JACKS OUR BARTENDER

Reg: 4425254

YOR: 2003

Breed OH

Sex: S

Alt. ID:5198859

Sire: BARTENDERS MEMORY
Dam: WATCH MISS JO JACKIE

Reg: 3736501

Reg: 3301428

GBED	N/N
HERDA	N/N
НҮРР	N/N
МН	N/N
PSSM1	N/N

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

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

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.

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AQHA GENETIC DISEASE PANEL TEST RESULTS

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

QHA273607

Date Received:

14-Nov-2016

Print Date:

Case:

18-Nov-2016

Report ID:

8770-9069-3363-9020 Verify report at www.vgt.ucdavis.edu/myvgt/verify.html

Reg: 4593280

Horse: TJS PERFECT COWGIRL

YOB: 2004 Sex: Mare Breed: Quarter Horse Alt. ID: 5398588

Sire: TEE J ROJO JACK Dam: MS PERFECT

Reg: 2306292

Reg: 2952027

CDED	
GBED HERDA HYPP MH	N/N
HERDA	N/N
НҮРР	N/N
МН	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

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GBED REPORT

JODIE WORONIECKI
7075 28TH ST.
HEBRON, ND 58638

Case: NQ52071
Date Received: 05-Aug-2019

 Print Date:
 07-Aug-2019

 Report ID:
 3556-8064-2379-2171

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

Horse: WHISKEY UP SHANG JW Reg: AQHA Pending

DOB: 05/14/2019 Sex: Stallion Breed: Quarter Horse

Sire: WHOOP UP WHISKEY Reg: 5359075

Dam: HQ JACKS ROJAVAQUERA Reg: 5710687

GBED Test Result

N/N

Result Codes:

G/G Affected - Homozygous for GBED (two copies of the GBED gene).

N/G Carrier - Heterozygous (one normal and one GBED gene).

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

The condition is inherited as a recessive trait. This means that breedings between two carrier (N/G) horses have a 25% chance of producing an affected foal (G/G). Affected foals usually die at a young age or will need to be euthanized due to weakness. Breedings between carrier and normal (N/N) horses produce only normal foals but 50% of these are expected to be carriers.