



Jodie & Warren Woronecki
7075 28th St.
Hebron, ND 58638
701-878-4088

Check us out online at----
www.WoroneckiRanchQuarterHorses.com
Or email, call or stop by the ranch.
woroneckiranch@westriv.com

5 Panel Information as it Pertains to Woronecki Ranch Quarter Horses

At Woronecki 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. **Carriers (N/HDR) 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/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.**

Magellan Topsail JW (AQHA)
2024 Bay Stallion

All NN by parentage. Parents' tests included.

GBED Status N/N
HERDA Status N/N
HYPP Status N/N
MH Status N/N
PSSM1 Status N/N

AQHA GENETIC DISEASE PANEL TEST REPORT

<p><i>Client/Owner/Agent Information:</i> AMERICAN QUARTER HORSE ASSOCIATION</p> <p><i>Provided Information:</i> <i>Name:</i> GOLDUN TOPSAIL <i>Registration:</i> 5857711</p>	<p><i>Date Received:</i> 13-Nov-2020 <i>Report Issue Date:</i> 08-Jul-2021 <i>Report ID:</i> 3415-6491-2604-3059 <i>Reissue of:</i> 3802-5362-1982-9153</p>
<p><i>DOB:</i> 05/31/2017 <i>Sex:</i> Stallion <i>Breed:</i> Quarter Horse <i>Alt. ID:</i> 6903098</p>	
<p><i>Sire:</i> JAZ POCO GOLDUN BLUE <i>Reg:</i> 3275428 <i>Microchip:</i></p>	<p><i>Dam:</i> WHIZZIN LENA <i>Reg:</i> 3562722 <i>Microchip:</i></p>

RESULT

INTERPRETATION

Genetic Test	Result	Interpretation
Glycogen Branching Enzyme Deficiency (GBED)	N/N	Normal - Does not possess the disease-causing GBED gene
Hereditary Equine Regional Dermal Asthenia (HERDA)	N/N	Normal - horse does not have the HERDA gene
Hyperkalemic Periodic Paralysis (HYPP)	N/N	Normal - Does not possess the disease-causing HYPP gene
Malignant Hyperthermia (MH)	N/N	Normal - horse does not have the MH gene
Polysaccharide Storage Myopathy Type 1 (PSSM1)	N/N	Normal - horse does not have the PSSM1 gene

Additional Information

If testing for a disease or a disorder was performed and results indicate the animal is affected or at risk, we recommend contacting your veterinarian for further clinical evaluation and for additional information on disease and management.

For more detailed information on Equine Disease Panel test results, please visit our website at:
www.vgl.ucdavis.edu/services/horse/qhpanel.php

License Information

GBED testing performed under a license agreement with the University of Minnesota.
PSSM1 testing performed under a license agreement with the American Quarter Horse Association.

Additional Comments

Results are determined using PCR-based methods. The results relate only to the sample tested as identified by the submitter (for example, identity and/or breed).

Report authorized by Dr. Rebecca Bellone, VGL Director

Veterinary Genetics Laboratory · University of California Davis · One Shields Ave · Davis, CA 95616
vgl.ucdavis.edu · (530) 752-2211



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Cri Kee Bartender JW (AQHA)
2019 Bay Roan Filly

All NN by parentage. Parents' tests included.

GBED Status N/N
HERDA Status N/N
HYPP Status N/N
MH Status N/N
PSSM1 Status N/N

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SANTA BARBARA • SANTA CRUZ

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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 YOB: 2003 Breed: QH Sex: S Alt. ID: 5198859		Reg: 4425254
Sire: BARTENDERS MEMORY Dam: WATCH MISS JO JACKIE		Reg: 3736501 Reg: 3301428

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 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.

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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AQHA GENETIC DISEASE PANEL TEST RESULTS

AMERICAN QUARTER HORSE ASSOCIATION P.O. BOX 200 AMARILLO, TX 79168-0001	Case: QHA207913 Date Received: 11-Sep-2015 Print Date: 15-Sep-2015 Report ID: 2272-5676-8739-4064 Verify report at www.vgl.ucdavis.edu/myvgl/verify.html
Horse: CHARJODY Reg: 3589689 YOB: 1997 Sex: Mare Breed: Quarter Horse Alt. ID: 4196698	
Sire: ROAN CHARMER Reg: 1778119 Dam: MISS JODY RELIC Reg: 1523496	

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

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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.

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