

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.

Platinum Topsa	nil JW ((AQHA)	All NN by parentage. Parents' tests included.		
Dunalino/Roan	Mare				
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

Date Received:

Report ID:

Reissue of:

Report Issue Date:

13-Nov-2020

3415-6491-2604-3059

3802-5362-1982-9153

08-Jul-2021

Client/Owner/Agent Information:

AMERICAN QUARTER HORSE ASSOCIATION

Provided Information:

Name: GOLDUN TOPSAIL

Registration: 5857711

DOB: 05/31/2017 Sex: Stallion Breed: Quarter Horse Alt. ID: 6903098

 Sire:
 JAZ POCO GOLDUN BLUE
 Dam:
 WHIZZIN LENA

 Reg:
 3275428
 Reg:
 3562722

Microchip: Microchip:

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.

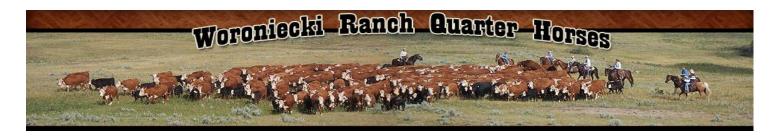
PSSM1 testing performed under a license agreement with the American Quarter Horse Association.

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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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.

Ting Bartender 2019 Buckskin	•	HA)	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		

BERRELEY . DAVIS . IRVINE . LOS ANGELES . MERCED . RIVERSIDE . SAN DIEGO . SAN FRANCISCO

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



SANTA BARBARA . SANTA CRUZ

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

QHA168729 Case:

Date Received:

04-Dec-2014

Print Date: Report ID:

08-Dec-2014

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

Reg: 4425254

Horse: JACKS OUR BARTENDER Breed: QH

Sex: S

Alt. ID: 5198859

Sire: BARTENDERS MEMORY

Reg: 3736501

Dam: WATCH MISS JO JACKIE

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
НҮРР	N/N	N/N - Normal - Does not possess the discase-causing HYPP gene
МН	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 caset is around 2 years of age. Inherited as a recessive disease.

HYPP - Hyperkelemic 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 (succinyleheline), 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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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 Dal	kota JW	(AQHA)
2010 Buckskin	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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VETERINARY GENETICS LABORATORY SCHOOL OF VETERINARY MEDICINE ONE SHIELDS AVENUE DAVIS, CALIFORNIA 95616-8744



AOHA GENETIC DISEASE PANEL TEST RESULTS

AMERICAN QUARTER HORSE ASSOCIATION

P.O. BOX 200

AMARILLO, TX 79168-0001

Case: QHA192967

Dase Received:

11-May-2015

Fran Date: Raport ID: 15-May-2015

on ID: 5224-0059-7667-9013
Verify report at www.vgl.ucdavis.edu/myegl/verify.html

Horse: TRR PADDYS TEXAS GIN

Reg: 4801457

70B: 2006 Sex: Stallion Breed: Quarter Horse Alt. ID: 3541519

Sire: PADDYS IRISH WHISKEY

Reg: 2983308

Dam: TRR MISS BAY GIN

Reg: 4163196

GBED	N/N
HERDA	N/HRD
НУРР	N/N
MH	N/N
PSSM1	N/N

N/N - Normal - Does not pessess 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

H N/N Normai - horse does not have the MH gene

N/M - Normal - horse does not have the PSSM1 gene

GBED - Glycogen Branching Enzyme Deficiency. Fatal disease of zoxborn fools caused by defect in glycogen storage. Affects heart and skelotal muscles and busin. Inherited as recreasize disease

HERDA - Hereditary Equine Regional Dermal Asthenia. Skin disease characterized by hyperextensible skin, searring, and severe lesions along the back of affected lutters. Typical onset is around 2 years of age. Inherited as a recessive disease.

HYPP - Hyperkalomic Periodic Paralysis. Mascle disease caused by defect in sockum channel gene that causes involuntary mascle contraction and increased level of potassium in blood. Inherited as deminant 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 (succinyletroline), and stress. Presumed inheritance as dominant disease,

PSSM1 - Polysacchatide Sinrage Myopathy Type 1. Mosele disease characterized by accumulation of abnormal complex sugars in skeletal muscles. Sigms include muscle pain, stiffness, skin revitating, 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 Catternia, Davis.

PSSMI testing performed under a license agreement with the American Quorter Horse Association.

BERKELEY + DAVIS + IRVINE + LUS ANGELES + MERCED + RIVERSIDE + SAN DIEGO + SAN PRANCISCO

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



SANTA BARBARA . SANTA CRUZ

AQHA GENETIC DISEASE PANEL TEST RESULTS

AMERICAN QUARTER HORSE ASSOCIATION P.O. BOX 200 AMARILLO, TX 79168-0001 Case: QHA207919

Date Received:

11-Sep-2015

Print Date: Report ID: 15-Sep-2015

ver ID: 1646-0931-7521-1055
Verify report at www.vgl.ucdavis.edu/myvgl/verify.html

Horse: MUJER LADY DIAL JW

Reg: 4857419

YOB: 2005 Sex: Mare Breed: Quarter Horse All. ID: \$102683

Reg: 2580521

Sire: MUJER TACKY JAY Dam: LADY TIFF JAY

Reg: 2962300

GBED	N/N
HERDA	N/N
НУРР	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

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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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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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.

MURRILLY + DAVIS + TOWAR + DOS ANGILLS + NOSCED + RIVERSICK + SANDERGO + SAN FLANCISCO

Copy

SANTA BARBARA . SANTA CRU

YETEDIS ARY CENETICS LABORATERY SCHOOL OF VEHICURELEY IV TREINS ONE SHEET CLAYESHE DANS CALIFORNA 980 C F44

THE REPLICATE (\$23) 952-3211 \$4.\$7 (\$10) 752-3586

HERDA TEST RESULT

CODIE WORONIECKI PGTS 28TH ST. HEBRON, ND 58638	Case: Date Received: Report Date: Area: D:	HRD3710 24-Jun-2010 29-Jun-2010 7330-2885-8965-4071
Marrie PADDYS GIN DAKOTA JW (AQHA PENDING)	Heg. Pending	
YOB: 10 Breed: QH Sex: M	AU 10:	
Size. TRR PAGDYS TEXAS GIN	Reg. 4801457	
Dars: MWER LADY DIAL JW	Reg. 4857419	

HERDA Test Result

N/N

Result Codes:

N/M Normal - home does not have the HEKIJA gene

NOTED Carrier-horse carries one copy of the HERDA gene

HRD/HRD Affected horse has two copies of the HERDA geno

Hossitary equips regional derival authoris (HERDA) is a degreeonitie skin disease characterized by hypometane blackin, souring, and severe lesions along the back of affected horses. Affected feels rarely show symptoms at birth. The condition typically occurs by the age of two, most notably when the horse is first being broke to saidle. HERDA is an autosomal recessive trait which means that breedings between carrier (NERD) horses have a 25% shape of producing an affected feel (HRDA). Breedings between carrier and normal, (MAN)burses produce normal feels, but 50% of these are expected to be excrises.

This test is specific for the mutation in the qualipphilin II gene (PVIII) that has been shown to be associated with BLRDA. For more information go to http://expl.updavis.edu.

The treat is not because in the same and an arrangement of the third same it is a "Chalifornia".