

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.

Chex Cody Tops	sail JW (AQHA)	All NN by parentage. Parents' tests included.		
2021 Dun Stalli	on			
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

Client/Owner/Agent Informa	tion:							
AMERICAN QUARTER H	ORSE ASSOCIATION	Date Received:	13-Nov-2020					
Provided Information:		Report Issue Date:	08-Jul-2021					
Name: GOLDU	JN TOPSAIL	Report ID:	3415-6491-2604-3059					
Registration: 585771	1	Reissue of:	3802-5362-1982-9153					
DOB: 05/31/2017 Sex: Stallion Breed: Quarter Horse Alt. ID: 6903098								
Sire: JAZ POCO GOLDUN BLUE Dam: WHIZZ			IN LENA					
Reg: 3275428		Reg: 3562722						
Microchip:	Microchip: Microchip:							
RESUL	Т	RETATION						
Glycogen Branching Enzyme Deficiency (GBED) N/N		Normal - Does not possess the disease-causing GBED gene						
Hereditary Equine Regional Derm Asthenia (HERDA)	al 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 (PSSMI) 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.

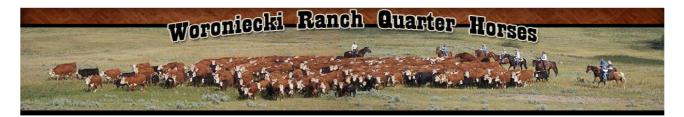
Additional Comments

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.

Chex Mix Mega (AQHA) 2017 Grulla Mare		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

Veterinary Genetics Laboratory

Client/Owner/Agent Information AMERICAN QUARTER HORS Provided Information:		Date Received: Report Issue Date:	17-May-2012 08-Jul-2021					
Name: SMART Cl Registration: 4256917	ARCOAL CHEX	Report ID: Reissue of:	4011-8551-5350-0140 0997-4383-1852-5040					
YOB: 2000 Sex: Stallion Breed: Quarter Horse Alt. ID: 4905317								
Sire: SMART LITTLE LENA Dam: MISS F			REED CHEX					
Reg: 1565822 Reg:			5408					
Microchip: Microchip:								
RESULT INTERP			ETATION					
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 (PSSMI)	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

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

Additional Comments

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REGISTERED NAME MEGAS LIL STARLIGHT REGISTRATION NUMBER 5179540

DATE ISSUED APRIL 28, 2017 OWNER NAME WORONIECKI JODIE & WARREN

JODIE & WARREN WORONIECKI 7075 28TH ST HEBRON, ND 58638-9422





DNA CASE NUMBER QHA63831

MARKINGS STAR, BROKEN STRIP AND SNIP. NO OTHER MARKINGS.

DISEASE PANEL RESULTS: HYPP=N/N HERDA=N/N MH=N/N PSSM TYPE 1=N/N GBED=N/N For more information regarding the disease results, refer to www.aqha.com/genetictesting

The name on the front of this certificate listed as CURRENT OWNER is the present owner of this horse as shown on the records of American Quarter Horse Association. If ownership changes have occurred, up to three previous owners are listed below. All other ownership records are on file in the AQHA office.

3/17/09 WENINGER LORI

ANAMOOSE, NORTH DAKOTA

(Physical Address) 1600 Quarter Horse Drive Amarillo, TX 79104 Telephone: (806)376-4811

(Mailing Address) P.O.Box 200 Amarillo, Texas 79168

www.aqha.com