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7 Identified Diseases Information as it Pertains to Woronecki Ranch Quarter Horses

At Woronecki Ranch Quarter Horses we take an ethical response to any genetic diseases as they are identified. AQHA previously had a 5-panel test requirement for breeding stallions since 2015. Two more diseases have been identified and AQHA has now required a 6-panel test. A 7th disease has been identified and could soon be added to the panel. We, as well as many other breeders, have decided to test for that (EJSCA). We also know that there could be many more diseases yet to be discovered. We order our tests through the VGL laboratory of the School of Veterinary Medicine at the University of California, Davis and provide those results to AQHA and buyers. 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) is a fatal genetic disorder that results from the inability to correctly store glycogen in several organs of the body. 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 you decide 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) is an inherited skin condition primarily found in Quarter Horses that is characterized by hyperextensible skin, scarring, and severe lesions along the back of affected horses. **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 you decide 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 an inherited disease of the muscles primarily found in Quarter Horses which is characterized by sporadic episodes of muscle tremors or paralysis. **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.**

Formerly known as IMM, Myosin-heavy chain myopathy (MYHM) is a muscle disease in Quarter Horses and related breeds that results in two distinct clinical disease presentations. The first presentation is called immune-mediated myositis or IMM and it is characterized by episodes of severe muscle atrophy following an autoimmune event. The second is severe muscle pain and damage termed non-exertional rhabdomyolysis or "tying-up" that is not associated with exercise and may or may not have muscle atrophy. **MYHM is a codominant trait and carriers (N/My) may develop a myosin-heavy chain myopathy. Horses with (My/My) may develop a more severe form of a myosin-heavy chain myopathy. It is highly recommended NOT to breed a carrier.** After consulting with veterinarians and experts in breeding who deem this disorder to not be as severe or common as HYPP or PSSM1, we have decided at this time to continue to breed certain individuals identified at WRQH. We will not breed carriers to carriers to minimize the potential. We have several aged horses that carry MYHM and have had no problems with them. If things prove differently, we will adjust at that time.

Malignant Hyperthermia (MH) is an inherited disease in which affected horses can be triggered by halogenated anesthetics, succinylcholine, stress, or excitement, which can induce a hyper-metabolic state characterized by symptoms including muscle contracture, elevated temperature, and an irregular heart rhythm. **MH is a dominant trait, and carriers (N/MH) will be afflicted if undergoing surgery or extreme stress. It is highly recommended NOT to breed a carrier.**

Polysaccharide Storage Myopathy (PSSM1) is a glycogen storage disease that results in the accumulation of abnormal complex sugars in muscle cells, which can lead to muscle pain, weakness, and reluctance to move. **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.**

Equine Juvenile Spinocerebellar Ataxia (EJSCA) is an inherited neurologic disease that causes ataxia. Affected foals develop ataxia, or incoordination, between 1 and 4 weeks of age. The disorder progresses within a few days until affected foals are unable to stand without assistance. **EJSCA is a recessive trait and only horses that inherit both recessive genes from each parent (JSA/JSA) will be afflicted. Carriers (N/JSA) 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/JSA) it is highly advised to not breed to another carrier to avoid producing afflicted offspring.**

HQ Lightupthebrazos (AQHA # 5828746)

2017 Palomno Mare

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

Client/Owner/Agent Information: AMERICAN QUARTER HORSE ASSOCIATION		Date Received: 04-Dec-2014
Provided Information: Name: CD DYNA CEE Registration: 5522360		Report Issue Date: 08-Jul-2021 Report ID: 4145-4587-6233-2108 Reissue of: 0756-2277-8786-5100
YOB: 2012 Sex: Stallion Breed: Quarter Horse Alt. ID: 6504701		
Sire: CD LIGHTS Reg: 3767592 Microchip:		Dam: ARC DYNA CEE Reg: 4330746 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

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> SEVENS BRAZOS LILY <i>Registration:</i> 5524945</p>	<p><i>Date Received:</i> 08-Jun-2017 <i>Report Issue Date:</i> 08-Jul-2021 <i>Report ID:</i> 6461-6668-0880-7000 <i>Reissue of:</i> 9827-4141-2864-2097</p>
<p><i>YOB:</i> 2013 <i>Sex:</i> Mare <i>Breed:</i> Quarter Horse <i>Alt. ID:</i> 6511344</p>	
<p><i>Sire:</i> TWO EYED BRAZOS <i>Reg:</i> 4518748 <i>Microchip:</i></p>	<p><i>Dam:</i> RONDOS LUCKY TIME <i>Reg:</i> 4449466 <i>Microchip:</i></p>

RESULT

INTERPRETATION

Genetic Condition	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

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**MYOSIN-HEAVY CHAIN MYOPATHY (MYHM)
 TEST REPORT**

Provided Information:		Case:	NQ123397
Name:	HQ LIGHTUPTHEBRAZOS	Date Received:	01-May-2025
Registration:	5828746	Report Issue Date:	06-May-2025
		Report ID:	3305-9124-7539-9179
Verify report at vgl.ucdavis.edu/verify			
DOB: 04/20/2017 Sex: Mare Breed: Quarter Horse			
Sire:	CD DYNA CEE	Dam:	SEVENS BRAZOS LILY
Reg:	5522360	Reg:	5524945
Microchip:		Microchip:	

RESULT

INTERPRETATION

Myosin-Heavy Chain Myopathy (MYHM)	N/N
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Normal. No copies of the MYHM allele detected. Horse does not have increased susceptibility for immune mediated myositis or nonexertional rhabdomyolysis caused by the MYHM allele.

EQUINE JUVENILE SPINOCEREBELLAR ATAXIA TEST REPORT

<p><i>Provided Information:</i></p> <p><i>Name:</i> HQ LIGHTUPTHEBRAZOS</p> <p><i>Registration:</i> 5828746</p>	<p><i>Case:</i> NQ123397</p> <p><i>Date Received:</i> 01-May-2025</p> <p><i>Report Issue Date:</i> 06-May-2025</p> <p><i>Report ID:</i> 6564-9075-2449-5002</p> <p style="text-align: center; font-size: small;">Verify report at vgl.ucdavis.edu/verify</p>
<p><i>DOB:</i> 04/20/2017 <i>Sex:</i> Mare <i>Breed:</i> Quarter Horse</p>	
<p><i>Sire:</i> CD DYNA CEE</p> <p><i>Reg:</i> 5522360</p> <p><i>Microchip:</i></p>	<p><i>Dam:</i> SEVENS BRAZOS LILY</p> <p><i>Reg:</i> 5524945</p> <p><i>Microchip:</i></p>

RESULT

INTERPRETATION

<p>Equine Juvenile Spinocerebellar Ataxia</p>	<p>N/N</p>
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Normal. No copies of the allele associated with equine juvenile spinocerebellar ataxia (EJSCA) detected.