



Cornell University  
College of Veterinary Medicine

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### HERDA REPORT

SUSAN L. WATKINS  
6172 S. STATE ROUTE 1  
HAMILTON, IN 46742

<b>Case:</b>	<b>38235-08</b>
<b>Date Received:</b>	3/31/08
<b>Report Date:</b>	4/4/08

<i>Horse:</i> <b>VESTED PINE</b>	<i>Reg:</i> <b>3026469</b>
<i>YOB:</i> <b>1991</b> <i>Breed:</i> <b>AQHA</b> <i>Sex:</i> <b>M</b>	<i>Alt. ID:</i>
<i>Sire:</i> THE INVESTOR	<i>Reg:</i> <b>N/A</b>
<i>Dam:</i> ZIPPOS BAY LADY	<i>Reg:</i> <b>N/A</b>

### HERDA Test Result

**N/N**

**Result Codes:**

- Hr/Hr    Affected – Homozygous for HERDA (two copies of HERDA gene).
- N/Hr    Carrier – Heterozygous (one normal gene copy and one HERDA gene copy).
- N/N    Normal – Homozygous for the normal gene. Does not possess the disease-causing HERDA gene.

Hereditary Equine Regional Dermal Asthenia (HERDA) is inherited as a recessive trait. This means that breedings between two carrier (N/Hr) horses have a 25% chance of producing an affected foal (Hr/Hr). Affected foals generally appear normal at birth and may not show clinical signs of the disorder (fragile, excessively stretchy skin) until they reach one to two years of age. Foals produced by matings between carrier (N/Hr) and normal (N/N) horses always appear to be normal, but 50% of these are expected to be carriers. We therefore recommend DNA testing all offspring produced by carriers of this trait.

## Equine Genetic Testing Report

Submitted By	AG103872
Susan L. Watkins Black Creek Crossing 6172 S. State Rd 1 Hamilton, IN 46742	



<b>Subject Horse</b>	Date Received: 1/20/2012
Horse Name: <b>Vested Pine</b> Breed: Quarter Horse Phenotype: Sorrel	Registration: 3026469 Sex: Stallion Birth:

<b>Sire</b>
Sire Name: The Investor Breed: Quarter Horse Registration: Phenotype: Sorrel

<b>Dam</b>
Dam Name: Zippos Bay Lady Breed: Quarter Horse Registration: Phenotype:

Coat Color and Pattern Testing	
Tobiano	Not Tested
Frame Overo	Not Tested
Sabino 1	Not Tested
Splashed White 1	Not Tested
Splashed White 2	Not Tested
Splashed White 3	Not Tested
Appaloosa (LP)	Not Tested
Red/Black Factor	Not Tested
Agouti	Not Tested
Cream Dilution	Not Tested
Silver Dilution	Not Tested
Champagne	Not Tested
Pearl Dilution	Not Tested
Gray	Not Tested

Genetic Disorders			
	HYPP		Not Tested
	HERDA		Not Tested
<b>X</b>	GBED	N/N	Clear: Negative for the GBED gene mutation.
<b>X</b>	PSSM 1	n/n	Clear: Negative for the PSSM Type 1 gene mutation.
	MH		Not Tested
	JEB		Not Tested
	CA		Not Tested
	LFS		Not Tested

Genetic Marker Results							Run Date: Not Tested
-	-	-	-	-	-	-	
AHT4	AHT5	ASB17	ASB2	ASB23	AME	CA425UK	
-	-	-	-	-	-	-	
HMS3	HMS6	HMS7	HTG10	HTG4	LEX3	LEX33	
-	-	-	-	-	-	-	
VHL20	UM011	HMS1	HMS2	HTC6	HTG7		

<b>Additional Comments</b>
Notes

CA = Cerebellar Abiotrophy  
 GBED = Glycogen branching enzyme deficiency  
 HERDA = Hereditary equine regional dermal asthenia  
 HYPP = Hyperkalemic Periodic Paralysis  
 JEB1 = Junctional Epidermolysis Bullosa - Belgian Draft Horse  
 JEB2 = Junctional Epidermolysis Bullosa - American Saddlebred  
 LFS = Lavender Foal Syndrome  
 LWO = Lethal White Overo  
 MH = Malignant Hyperthermia  
 PSSM1 = Polysaccharide Storage Myopathy - Type 1

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