

## Equine Genetic Testing Report

Submitted By
Coyote Ridge Ranch, LLC
Mulberry, AR 72947



<b>Subject Horse</b>	Date Received: 9/11/2009
Horse Name: <b>Mucha Bella Blue</b> Breed: Quarter Horse Phenotype: Blue Roan	Registration: Pending Sex: Mare Birth: 2009

<b>Sire</b>
Sire Name: Mucha Hancock Breed: Quarter Horse Registration: 3432667 Phenotype: Dun w/ Cream Gene

<b>Dam</b>
Dam Name: Plenty of Wyo Breed: Quarter Horse Registration: 4074901 Phenotype: Grullo Roan

Coat Color and Pattern Testing			
	Tobiano		Not Tested
	Frame Overo		Not Tested
	Sabino 1		Not Tested
	Appaloosa (LP)		Not Tested
<b>X</b>	Red/Black Factor	<b>EE</b>	Homozygous for Black Factor. Horse carries two copies of the Black gene. Horse is Black based.
<b>X</b>	Agouti	<b>aa</b>	Non-Agouti. If horse is black based (E), black pigment will be evenly distributed.
<b>X</b>	Cream Dilution	<b>nCr</b>	Heterozygous. Single dilute. Horse carries one copy of the Cream Dilution gene.
	Silver Dilution		Not Tested
	Champagne		Not Tested
	Pearl Dilution		Not Tested
	Gray		Not Tested

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

<b>Additional Comments</b>
None

Genetic Marker Result							Run Date: Not Tested
-	-	-	-	-	-	-	
AHT4	AHT5	ASB17	ASB2	ASB23	AME	CA425UK	
-	-	-	-	-	-	-	
HMS3	HMS6	HMS7	HTG10	HTG4	LEX3	LEX33	
-	-	-	-	-	-	-	
VHL20	UM011	HMS1	HMS2	HTG6	HTG7		

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

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