

Equine Genetic Testing Report

Submitted By	AG104297
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Subject Horse	Date Received: 6/4/2010
Horse Name: Hickory Dun Classic	Registration: 5288825
Breed: Quarter Horse	Sex: Colt
Phenotype: Champagne/Dun	Birth: 2010

Sire	Dam
Sire Name: DBD Queen	Dam Name: JRS Dun Diablo
Breed: Quarter Horse	Breed: Quarter Horse
Registration: 3812781	Registration: 4245602
Phenotype: Amber Champagne	Phenotype: Grullo

Coat Color and Pattern Testing			
	Tobiano		Not Tested
	Frame Overo		Not Tested
	Sabino 1		Not Tested
	Appaloosa (LP)		Not Tested
X	Red/Black Factor	Ee	Heterozygous. Horse is Black based but carries a recessive copy of the Red gene.
X	Agouti	aa	Non-Agouti. If horse is black based (E), black pigment will be evenly distributed.
X	Cream Dilution	nn	Negative for Cream Dilution.
	Silver Dilution		Not Tested
X	Champagne	nCh	Heterozygous. Horse carries one copy of the Champagne Dilution gene.
	Pearl Dilution		Not Tested
	Gray		Not Tested

Genetic Disorders			
	HYPp		Not Tested
X	HERDA	N/N	Negative for the HERDA gene mutation.
X	GBED	N/N	Negative for the GBED gene mutation.
X	PSSM 1	n/n	Negative for the PSSM Type 1 gene mutation.
	MH		Not Tested
	JEB		Not Tested
	CA		Not Tested
	LFS		Not Tested

Additional Comments
None

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	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
 PSSM1 = Polysaccharide Storage Myopathy - Type 1

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