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**HORSE COAT COLOR TEST RESULTS**

Elizabeth Roberts 940 N Mutual Union Rd Cable, OH 43009	<b>Case: DT15723</b> <b>Date Received: 22-Jan-2007</b> <b>Report Date: 26-Jan-2007</b> <b>Report ID: 6483-7425-1547-0102</b>
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Horse: <b>INVITED BACK</b> YOB: <b>03</b> Breed: <b>PT</b> Sex: <b>S</b>	Reg: <b>771098</b> Alt. ID:
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Sire: WILLY BE INVITED Dam: HF SKIPA TIZZY	Reg: 3697049 Reg: 172242
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RED FACTOR

Not requested.

AGOUTI

Not requested.

CREAM DILUTION

Not requested.

PEARL DILUTION

Not requested.

SILVER DILUTION

Not requested.

LETHAL WHITE OVERO
N/N

No evidence for the altered sequence detected.

SABINO 1
N/N

No evidence of altered sequence detected.

# Horse Coat Color Results with Explanations

## Red Factor

**e/e** – Only the red factor detected. Basic color is sorrel or chestnut in the absence of other modifying genes.

**E/e** – Both black and red factors detected. Either E or e transmitted to offspring. Basic color is black, bay or brown in the absence of other modifying genes.

**E/E** – No red factor detected. It cannot have red foals regardless of the color of mate. Basic color is black, bay or brown in the absence of other modifying genes.

## Agouti

**A/A** – Black pigment distributed in points pattern. Basic color is bay or brown in the absence of other modifying genes.

**A/a** – Black pigment distributed in points pattern. Basic color is bay or brown in the absence of other modifying genes.

**a/a** – Only recessive allele detected. Black pigment distributed uniformly. Basic color is black in the absence of other modifying genes.

## Cream

**N/N** – No evidence for the Cream dilution altered sequence detected. Basic color is sorrel or chestnut, bay or black in the absence of other modifying genes.

**N/Cr** – Heterozygous, dilute, one copy of Cream gene. Typical colors are palomino, buckskin and smoky black in the absence of other modifying genes.

**Cr/Cr** – Double dilute (two copies of Cream gene). Typical colors are cremello, perlino and smoky cream in the absence of other modifying genes.

## Pearl

**N/N** – No evidence of the altered sequence detected.

**N/Prl** – One copy of the altered sequence detected. If Cream dilution is also present, a pseudo-double Cream dilute phenotype will result.

**Prl/Prl** – Two copies of the altered sequence detected. On a chestnut base color, a uniform apricot color of body hair, mane and tail will result.

## Silver

**N/N** – No evidence of the altered sequence detected.

**N/Z** – One copy of the altered sequence detected. Black-based horses will be chocolate with flaxen or lightened mane and tail. Bay-based horses will have lightened black pigment on lower legs, mane and tail. No effect on chestnut color.

**Z/Z** – Two copies of altered sequence detected. Black-based horses will be chocolate with flaxen or lightened mane and tail. Bay-based horses will have lightened black pigment on lower legs, mane and tail. No effect on chestnut color.

## Lethal White Overo

**N/N** – No evidence for the altered sequence detected.

**N/O** – One copy of the altered sequence detected. If bred to another N/O horse, there is a 25% chance of producing a lethal white overo foal. The N/O type has been detected in Paints (including breeding stock), Pintos, Thoroughbreds, Miniatures, Quarter Horses and Tennessee Walking Horses.

**O/O** – Only the altered sequence in the EDNRB gene detected. This result has only been obtained with samples from lethal white overo foals.

## Sabino 1

**N/N** – No evidence of altered sequence detected.

**N/SB1** – One copy of the Sabino 1 gene detected. Horse typically may have 2 or more white legs, blaze, spots or roaning in the midsection and jagged margins around white areas.

**SB1/SB1** – Two copies of the Sabino 1 gene detected. Complete or nearly complete white phenotype expected.