## UNIVERSITY OF CALIFORNIA, DAVIS

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VETERINARY GENETICS LABORATORY SCHOOL OF VETERINARY MEDICINE ONE SHIELDS AVENUE DAVIS, CALIFORNIA 95616-8744



SANTA BARBARA · SANTA CRUZ

TELEPHONE: (530) 752-2211 FAX: (530) 752-3556

## **GBED REPORT**

JEFFREY NEIDHART 4144 CRISTO REY ST FARMINGTON, NM 87401

Case: NQ46125

Date Received: 19-Nov-2018

Print Date: 21-Nov-2018

Report ID: 6497-8554-0115-9180

Verify report at www.vgl.ucdavis.edu/myvgl/verify.htm

Horse: WEAVERS BLUS HEAVEN Reg: 4642917

DOB: 04/20/2005 Sex: Mare Breed: Quarter Horse

Sire: IMA BIT OF HEAVEN Reg: 3441822
Dam: DOCS DRY SAN CHEK Reg: 2970046

## **GBED Test Result**

# N/N

#### Result Codes:

G/G Affected - Homozygous for GBED (two copies of the GBED gene).

N/G Carrier - Heterozygous (one normal and one GBED gene).

N/N Normal - Does not possess the disease-causing GBED gene.

The condition is inherited as a recessive trait. This means that breedings between two carrier (N/G) horses have a 25% chance of producing an affected foal (G/G). Affected foals usually die at a young age or will need to be euthanized due to weakness. Breedings between carrier and normal (N/N) horses produce only normal foals but 50% of these are expected to be carriers.

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## HERDA TEST RESULT

JEFFREY NEIDHART 4144 CRISTO REY ST FARMINGTON, NM 87401

Case: NQ46125

Date Received: 19-Nov-2018

Print Date: 21-Nov-2018

Report ID: 1286-4779-7338-5091

Verify report at www.vgl.ucdavis.edu/myvgl/verify.htm

Name: WEAVERS BLUS HEAVEN Reg: 4642917

DOB: 04/20/2005 Sex: Mare Breed: Quarter Horse

Sire: IMA BIT OF HEAVEN Reg: 3441822

Dam: DOCS DRY SAN CHEK Reg: 2970046

### **HERDA Test Result**

# N/N

#### Result Codes:

N/N Normal - horse does not have the HERDA gene
N/HRD Carrier - horse carries one copy of the HERDA gene
HRD/HRD Affected - horse has two copies of the HERDA gene

Hereditary equine regional dermal asthenia (HERDA) is a degenerative skin disease characterized by hyperextensible skin, scarring, and severe lesions along the back of affected horses. Affected foals rarely show symptoms at birth. The condition typically occurs by the age of two, most notably when the horse is first being broke to saddle. HERDA is an autosomal recessive trait which means that breedings between carrier (N/HRD) horses have a 25% chance of producing an affected foal (HRD/HRD). Breedings between carrier and normal (N/N) horses produce normal foals, but 50% of these are expected to be carriers.

This test is specific for the mutation in the cyclophilin B gene (PPIB) that has been shown to be associated with HERDA. For more information go to http://vgl.ucdavis.edu.

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## HYPP REPORT

JEFFREY NEIDHART 4144 CRISTO REY ST FARMINGTON, NM 87401

Case:

NQ46125

Date Received:

19-Nov-2018

Print Date:

21-Nov-2018

Report ID:

6499-9853-8633-5128 Verify report at www.vgl.ucdavis.edu/myvgl/verify.htm

Horse: WEAVERS BLUS HEAVEN

Reg: 4642917

DOB: 04/20/2005 Sex: Mare Breed: Quarter Horse

Reg: 3441822

Sire: IMA BIT OF HEAVEN Dam: DOCS DRY SAN CHEK

Reg: 2970046

## **HYPP Test Result**

# N/N

#### Result Codes:

H/H Hyperkalemic - Homozygous for HYPP (two copies of the HYPP gene).

N/H Hyperkalemic - Heterozygous (one normal and one HYPP gene).

N/N Normal - Does not possess the disease-causing HYPP gene.

The disease is inherited as an autosomal dominant trait, which means that a heterozygote (N/H) bred to a normal (N/N) will result in approximately half of the offspring being affected and half being normal. The homozygote (H/H) is usually severely affected with the disease.

The test indicates the presence or absence of a base pair substitution in the skeletal muscle sodium channel gene. The abnormal gene codes for a defective sodium channel protein that causes the disease Hyperkalemic Periodic Paralysis (HYPP).