



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

TELEPHONE: (530) 752-2211
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GBED REPORT

JEFFREY NEIDHART 4144 CRISTO REY ST FARMINGTON, NM 87401	Case: NQ46039 Date Received: 14-Nov-2018 Print Date: 20-Nov-2018 Report ID: 9407-3565-3221-1195 Verify report at www.vgl.ucdavis.edu/myvgl/verify.htm
Horse: NCH PEPPYS FROM HEAVEN <i>DOB:</i> 02/24/2014 <i>Sex:</i> Mare <i>Breed:</i> Quarter Horse	Reg: A195-QHC
<i>Sire:</i> PEPPY SAN BADGER <i>Dam:</i> ROYAL BLUE BOON	<i>Reg:</i> <i>Reg:</i>

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: NQ46039 Date Received: 14-Nov-2018 Print Date: 20-Nov-2018 Report ID: 6935-9310-3031-5020 Verify report at www.vgl.ucdavis.edu/myvgl/verify.htm
Name: NCH PEPPYS FROM HEAVEN DOB: 02/24/2014 Sex: Mare Breed: Quarter Horse	Reg: A195-QHC
Sire: PEPPY SAN BADGER Dam: ROYAL BLUE BOON	Reg: Reg:

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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MALIGNANT HYPERTHERMIA TEST RESULT

JEFFREY NEIDHART 4144 CRISTO REY ST FARMINGTON, NM 87401	Case: NQ46039 Date Received: 14-Nov-2018 Print Date: 20-Nov-2018 Report ID: 7410-8271-1624-5013 Verify report at www.vgl.ucdavis.edu/myvgl/verify.htm
Name: NCH PEPPYS FROM HEAVEN DOB: 02/24/2014 Sex: Mare Breed: Quarter Horse	Reg: A195-QHC
Sire: PEPPY SAN BADGER Dam: ROYAL BLUE BOON	Reg: Reg:

Malignant Hyperthermia Result

N/N

Result Codes:

N/N	Normal - horse does not have the MH gene.
N/MH	Affected - horse has one copy of the MH gene.
MH/MH	Affected - horse has two copies of the MH gene.