



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

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

### HERDA TEST RESULT

ARCESE QUARTER HORSES, USA 1400 OLD GARNER RD WEATHERFORD, TX 76088	<b>Case:</b> <b>HRD3181</b> <b>Date Received:</b> 19-Mar-2010 <b>Report Date:</b> 22-Mar-2010 <b>Report ID:</b> 1856-7532-8853-3033
<b>Name:</b> GUNNATRASHYA <b>YOB:</b> 06 <b>Breed:</b> QH <b>Sex:</b> S	<b>Reg:</b> 4912501 <b>Alt. ID:</b>
<b>Sire:</b> COLONELS SMOKING GUN <b>Dam:</b> NATRASHA	<b>Reg:</b> 4472679 <b>Reg:</b> 4655096

### 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>.