



4037 Iron Works Parkway, Suite 160, Lexington, KY 40511-8483

(859) 455-7430 (telephone) (859) 455-7457 (facsimile)

A member of the National Horse Center

Hydrocephalus Gene Test and Dwarfism DNA test order Form

Owner Name _____ FHANA Number _____

Address: _____

Phone: _____ Email: _____

Horses Name: _____

Registration Number: _____

Veterinary Certification: I hereby certify that on this day, I, a licensed veterinary practitioner, have examined the above-named horse that is, to the best of my knowledge, the horse identified on this form. I have verified the horse's identity by matching the microchip number or the tongue code on the horse's registration certificate as indicated below.

Choose one:

1. I have examined both sides of the horse's neck with a microchip scanner and have found the following microchip code: _____

2. I have found no microchip but did find a tongue code as follows: _____

Veterinarian Name: _____

Veterinarian Signature: _____ **Date:** _____

Veterinarian Phone: _____ **and or Email:** _____

Payment Information:

Check or Money Order for \$65.00 US (Payable to Friesian Horse Association of North America or FHANA)

Please charge my credit card for \$65.00 US: Discover Master Card Visa

Name on Card: _____

Card Number: _____

Expiration Date: _____/_____/_____ CVV2 _____ (3 digit number on the back of MasterCard and Visa, the last 3 digits on the back of the Discover card)

Cardholder signature: _____ Date: _____

By Signing below I hereby commission the KFPS to conduct DNA tests as the Van Haeringen Laboratory in Wageningen. Printed Name Agent/Owner:



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Signature Agent/Owner: _____ Date: _____

Procedure for collection and mailing of hair samples for DNA testing

Hair from the mane or tail must be freshly pulled so that the root bulb remains attached to the hair shaft. It is the root bulb that contains the DNA and not the shaft. A minimum of 25 to 30 root bulbs are required. Hairs can be pulled from over the withers so they are relatively short in length, or if longer hairs are pulled, the hair shafts can be cut to a length of 3 to 4 inches. Tape hairs containing the root bulbs to an index card labeled with the horse's name and registration number. Place in an envelope labeled with horse's name and registration number. Forward this form and envelope containing the hair sample to: **FHANA, 4037 Iron Works Parkway, Suite 160, Lexington, KY 40511-8483.**

Marker test and gene test. The test for hydrocephalus is a gene test. That means that the test is based on the mutation which causes the anomaly. A gene test is 100% reliable. The test for dwarfism is a marking test. The mutation for dwarfism has not yet been pinpointed with exact precision. The test focuses on marking genes which are positioned on the DNA in the region of the mutation. In a small number of cases the test will come up with incorrect readings that are either false positive or false negative. Currently, research is ongoing to develop a gene test for the dwarfism disorder. As soon as the gene test will become available all previously tested horses will be tested again free of charge.

Risk mating

The KFPS advises breeders to have all broodmares tested. The resulting outcome should be used to prevent combinations between stallions and mares who are both carrier of these disorders, because these matings have shown to lead to an anomalous foal in 1 out of 4 cases. With just one of both parents being carrier of either of these disorders the foal will not be affected. From this year on all stallions who are approved will be tested and the outcome will be publicized in the approval report. As long as not all stallions have been tested for carrier status it is important to consult the stallion keeper when choosing a stallion so that a match between two carriers can be avoided. The other option is to consult the KFPS to find out if the intended match of a tested mare is 'safe'.

Publication

Carrier status of mares will not be publicized on for example the studbook certificate. On My KFPS owners will only have access to the outcome of the tests of their own horses.