

DNA Hair Sample Kit
Genetic Marker Testing for Pulled Hair Sample

Instructions

How to Obtain Equine Hair Sample for DNA Testing

1. Wash hands thoroughly
2. Wash and dry mane if necessary.
3. Comb mane to remove any foreign material.
4. Pull (do not cut) 25 – 50 mane hairs. Samples should be taken from above the withers. Wrap small number of hairs around forefingers. Grasp the hair close to the equine's body. Pull the hair evenly and directly away from the neck so that hair does not break. Repeat in different locations until all the hairs have been obtained. Gather them together in the same direction. Look closely to ensure the root bulbs are present at the end of each hair. This is where the DNA is located. If necessary, repeat process until required sample size has been obtained. Do not cut the hair.
5. If sampling multi equines, wash hands between each animal or use surgical gloves – a new pair for each animal. This will reduce the possibility of cross contamination between the sampled equines.

How to Prepare Hair Sample for Shipping

1. Print one blank DNA Hair Sample Kit form for each hair sample. Complete the requested data to the extent possible. An example of a completed form has been included but depending on the breed you may not know all the information.
2. Place the gathered hair sample in a straight line across the centre area of the form which is reserved for hair samples. Keep the hair together with root bulbs to the left as indicated. Do not curl the hair. Tape the centre of the hair shafts so that the hair stays in place. Do not put tape on the root ends as this would damage the DNA.
3. Fold the hair kit form as you would a business envelope. Place completed form containing the hair sample in a separate envelope to protect it from contamination by other samples. Write the sample number and pony's name on the envelope (e.g. DNA Hair Sample Kit #1 – Pony's Name). Tack tape the envelope closed rather than sealing it since this will be easier to open and less likely to damage sample.
4. Place the envelope or group of envelopes in a larger, single envelope and mail directly to Dr. Gus Cothran.

If these samples are being mailed from outside the USA, additional documentation is required for USA Customs. Please refer to Page 3 of the "Project Information" for further details about these requirements.

Dr. Gus Cothran
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RE: DNA Samples Mountain and Moorland Pony Study

DNA Hair Sample Kit
Genetic Marker Testing for Pulled Hair Sample

Sample #: _____ Breed: _____
Equine Sampled (Full Name): _____
Registration #: _____ Existing DNA Case# : _____
DOB: _____ Sex: _____
Sire: _____ Registration # _____ DNA Case #: _____
Dam: _____ Registration #: _____ DNA Case #: _____
Height: _____ Weight: _____
Colour: _____
Description of White Markings and other ID details: _____

(Fold Line)

SAMPLE SECTION – DO NOT CUT HAIR

Hair Root Bulbs Here:
(25-50 Hairs)

Hair Shafts Here:
(Tape Centre of Shafts Here)

(Fold Line)

Owner Name(s) _____
Address (1): _____
Address (2): _____
Province/State: _____ Country: _____
Postal Code: _____
Telephone #'s: Daytime: _____ Other: _____
Fax: _____ Email: _____
Comments: _____

____ I/We do not wish to share individual data except with Dr. Gus Cothran or as directed by him.

____ I/We wish individual data to be shared with Mountain and Moorland Pony Genetic Analysis Project Team.

Owners' Signature(s): _____

EXAMPLE

DNA Hair Sample Kit
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Sample #: 1 Breed: Newfoundland Pony
Equine Sampled (Full Name): Woolridge's Misty Devon
Registration #: 418E Existing DNA Case# : NE1998001174
DOB: May 20, 1998 Sex: Stallion
Sire: Vinland's Star of the Sea Registration # 209 DNA Case #: NE1999001382
Dam: Woolridge's Misty Registration #: 347A DNA Case #: NE1999001327
Height: 14 hh Weight: 800 lbs
Colour: Dark Bay
Description of White Markings and other ID details: Star

(Fold Line)

SAMPLE SECTION – DO NOT CUT HAIR

Hair Root Bulbs Here:
(25-50 Hairs)

Hair Shafts Here:
(Tape Centre of Shafts Here)

(Fold Line)

Owner Name(s) Patricia and Glen Morris
Address (1): 2810 Campden Rd.
Address (2): Vineland
Province/State: Ontario Country: Canada
Postal Code: L0R 2C0
Telephone #'s: Daytime: 905-563-0330 Other: _____
Fax: _____ Email: mtcs@sympatico.ca
Comments: _____

____ I/We do not wish to share individual data except with Dr. Gus Cothran or as directed by him.

X I/We wish individual data to be shared with Mountain and Moorland Pony Genetic Analysis Project Team.

Owners' Signature(s): Signed by Patricia Morris and Glen Morris