



Mail samples to:
Genetic Testing at Gluck
Gluck Equine Research Center
University of Kentucky
Lexington, KY 40546-0099 USA

Contact info:
(859) 218-1212
Fax: (859) 257-8542
<http://www.ca.uky.edu/gluck/AGTRL.asp>

Instructions for Collecting DNA Samples

HAIR SAMPLES

- ❖ Pull 30-50 hairs from the mane or tail, pulling 5-10 hairs at a time.
- ❖ Make sure there are some pulled hairs with a bulb or follicle at the end. (This is where we obtain the DNA.)
- ❖ Do not use shedded hairs (from brush, etc.).
- ❖ Align the bulb ends of the pulled hairs together and trim other end so that sample is 3-4 inches long.
- ❖ Tape hair on paperwork and do not tape over follicle.



- ❖ Place in standard envelope labeled with horse's ID. Send via First Class Mail or Express, if desired.

WHOLE BLOOD OR SERUM SAMPLES

- ❖ Save polyfoam container as this will be used to forward blood samples to lab.
- ❖ Before collecting blood, carefully identify the horse and print horse's name on tubes.
- ❖ Draw blood samples using a clean, sterile vacutainer needle under aseptic conditions. The red stopper tube is for a clotted sample and the yellow stopper tube contains anticoagulant. Do not remove stoppers from tubes.
- ❖ Fill blood tubes within ¼ inch of top. Check to be certain the stoppers are secure. Slowly invert yellow tube several times.
- ❖ After obtaining the blood samples return the tubes to the polyfoam container and refrigerate a few hours before shipping.
- ❖ Mail samples so as to arrive at laboratory no later than Thursday of any week and not just preceding a holiday. (We do not want samples sitting at post office over weekends or holidays.) Samples can not get hot or freeze.
- ❖ Be sure to mark package: PERISHABLE – RUSH – KEEP FROM HEATING OR FREEZING
- ❖ Ship package via First Class Mail or Express, if desired.

OTHER SAMPLES (extra charges apply)

- ❖ **BONE:** Package carefully in box. Place correct paperwork and labeling on sample.
- ❖ **TISSUE:** Freeze tissue and mail overnight on ice. Place correct paperwork and labeling on sample.

All samples originating outside the United States MUST be accompanied by a USDA import permit. Contact Dr. Kathy Graves, (859) 218-1193, ktgraves@uky.edu.