

Instruction

Sampling for DNA analysis

Instruction for

Sampling of hair roots Page 2

Sampling of blood Page 3

Sampling of solid tissue Page 4

Shipment of samples Page 5

Instruction

Sampling of hair roots

General:

Approximately 50 hair roots are required. The hair roots may originate from:

Horse: Mane or tail

Cattle: Tail tuft or ear

(In calves always from the tail tuft)

Dog: Coat

Pig: Bristles

A slightly larger number of hair roots assures a sufficient reserve in case of re-testing.

Please note

Hair needs to be plucked NOT cut.

The applied method is very sensitive. **Carry-over of a single foreign hair can corrupt the whole result.**

Careful cleaning of the hands after sampling is essential when taking samples from different animals.

Wherever possible, the **hair should be strong grown and clean.**

Please place the dry hair sample in small bags.

Moist samples cannot be used for testing!

The hair length should not be shorter than 3 cm.

Very long hairs (horses) can be shortened by cutting the **rootless** end.

Label all samples with the animal's ID and make sure that label information corresponds with the sample submission form

Instruction

Blood sampling

General:

3-5 ml of blood
stabilized by EDTA, ACD or Citrate.

Do not submit samples stabilized by heparin or kaolin nor serum samples.

Particular considerations for cattle

No blood sample should be submitted in cases of multiple births due to possible blood chimerism. Hair roots, semen or solid tissue should be submitted in such cases, instead.

Exception:

Testing of freemartins requires blood samples!

Label all blood samples with the animal's ID and make sure that information given on the blood sample corresponds with sample submission form.

Instruction

Sampling of solid tissue

General:

Following test materials are particularly suitable: ear cartilage (ear notch samples), muscle tissue, internal organs and tissues (spleen, liver, kidney)

- Tissue samples should be clean!
- NO fatty tissue!
- Place the tissue sample in small bags.

Label all samples with the animal's ID and make sure that information given on the sample corresponds with sample submission form.

Important

The samples need to be shipped in a sufficiently padded envelope. Otherwise they can be pressed out of the bag or out of the envelope while in transit.

Instruction

Shipment of samples

General:

Samples and submission form are to be shipped on the day of sampling. Alternatively, the samples should be refrigerated or frozen until shipped.

Heat and humidity trigger putrefaction of organic material. Both conditions should be avoided. Sampling and shipment should be done as quickly as possible.

- Do not send as trade sample!
- Frank as letter or parcel.

Please note the following in case of sending solid tissue samples

The samples need to be sent in a sufficiently padded envelope. Otherwise they can be pressed out of the bag or out of the envelope while in transit.

Please send the samples promptly to the following address:

GeneControl GmbH
Senator-Gerauer-Straße 23 a
85586 Grub/ Poing
Germany