

GUIDELINES FOR COLLECTING HAIR ROOT SAMPLES FOR DNA GENOTYPING.

To collect a Hair Root sample you will need:

- **Hair Sample envelope** – write animal ID on envelope before collecting DNA
- **Application form** – online (print off below), or Breed Association office
- **Comb or brush** – clean and rid of old hair prior to sampling
- **Tape** – to secure hair sample.

Collect hair from tip of the tail (switch). The root ends contain the DNA. Samples are to **PULLED** not clipped.

1. Clean the tail switch to remove any foreign material. Comb or brush the tail to remove dead hair If needed wash and rinse the tail well, allowing it to dry completely. The sample must be free of urine or manure. Dirty samples will not be processed. Contamination will make the sample unfit for DNA testing.
2. Wrap approximately 5 hairs around a finger, about 2 inches away from the skin. Give a sharp pull to remove the hair. Inspect the hairs to ensure the follicles are attached. Hair strands without follicles do not contain DNA and cannot be tested.
3. Repeat step 2 until you have obtained 20 hair roots.
4. Place all of the hair roots at one end with the long strands pointing straight down. Secure the hairs with tape.
5. If doing more than one animal, WASH HANDS before starting the next animal, or use a clean pair of surgical gloves. This will reduce the risk of cross contamination of the DNA sample.
6. Repeat the steps for each animal.
7. Place the completed application form(s) and identified hair sample envelope(s) in a larger envelope addressed to:
**GenServe Laboratories,
c/o Saskatchewan Research Council
15 Innovation Boulevard
Regina, Saskatchewan
S7N 2X8**
8. The package may be sent by regular Canada Post.

Alternatively, you may place hair samples in a new white envelope with the following information written on the outside:

- Breed
- Animals' name
- Sex
- Registration number
- Tag or tattoo number
- Owner's name, phone and fax number

Place this envelope inside another envelope and send it to the above address. Include a note that the application will be sent from the Canadian Livestock Records.

Send your application for registration to the CLRC with a note that the hair sample has been sent to GenServe. The CLRC will fill out the application for the DNA test and send it to GenServe on your behalf.

MEMBERS SHOULD NOT SEND PAYMENT TO GENSERVE; YOU WILL BE BILLED THROUGH THE CDCA OFFICE.

For DNA testing the fee is \$45 plus applicable GST or HST. This will be invoiced after the test is done.



SASKATCHEWAN RESEARCH COUNCIL
 GENSERVE LABORATORIES
 125-15 Innovation Blvd.
 Saskatoon, Saskatchewan
 S7N 2X8

Phone No. (306) 933-7700
 Fax No. (306) 933-5505
 Email: genserve@src.sk.ca

FOR LABORATORY USE ONLY
Case No.
Date Received

smart science solutions

APPLICATION FOR TESTING

PLEASE TYPE – or – PRINT CLEARLY

BREED	SPECIES	Date animals sampled	Phone: ()
NAME OF OWNER «	Postal Code	Name of person taking sample	
Mailing Address «	City or Town	Prov.	Address and phone no. of person noted above

CALVES				PARENTS*		
NAME and REGISTRATION NO.	DATE of BIRTH (dd/mm/yyyy)	TATTOO		SEX	SIRE Name and Registration No.	DAM Name and Registration No.
		Lt. ear	Rt. ear			

* If there is doubt concerning the true parents, state facts and list possible alternates with breeding dates, if known, on the reverse side.

TEST TYPES (Check the requested tests)

Genotype Only _____
 (no parentage)

Parentage Test:

- a) Verify to Sire only _____
- b) Verify to Dam only _____
- c) Verify to Sire and Dam _____

Other Tests:

- Coat Colour _____
- Karyotype _____
- Freemartin _____
- *Polled _____
- BLAD _____
- Proto _____
- Kappa-Casein _____
- Chondrodysplasia _____

CERTIFICATION OF IDENTIFICATION OF ANIMALS

I hereby certify that I have properly identified all animals listed above and that each sample was correctly labelled.

DATE _____

SIGNATURE _____
 (Owner, Lessee or Authorized Agent)

- Please contact the lab prior to submitting samples for Polled testing