

## Procedures for Genetic Testing, Registration, & Transfer

- 1) Contact CLRC with a request for the type(s) of test(s) you wish to have done. It is preferred that this be done online at [www.clrc.ca/order](http://www.clrc.ca/order); however, you may also contact the Dexter registrars at CLRC by phone with your request or print, complete and mail the request form found at <https://www.clrc.ca/sites/default/files/associations/generic/Snptestkitapp.pdf>. Payment must be made up front when requesting the test(s). Payment must be made by Visa or Mastercard or by cheque, but if you mail a cheque, the kit will not be issued until it is received by CLRC. If sending a cheque, please refer to the testing fee schedule below and add the appropriate HST or GST.
- 2) CLRC will issue you a kit that consists of a testing application form with the information regarding the animal to be tested printed on it. The application form will be sent by email unless the applicant wants to wait for CLRC to mail the form.
- 3) When you receive the testing application form (print it if received by email), check the information on it, then sign and date it, and don't forget to include the hair sample in a Neogen hair sample card. Hair sample cards may be purchased from Neogen Canada, the testing lab, at a cost of \$1.00 each with a minimum order of 10 cards. To order, visit <https://www.neogen.com/categories/sampling-equipment/hair-cards/>. **Please do not use the former hair sample envelopes or wrap the sample loosely in paper, as this will result in a \$4.00 surcharge by the lab.** Mail the completed form and hair sample to Neogen Canada, 7323 Roper Rd. NW, Edmonton AB T6E 0W4. Please see below for Guidelines for Collecting Hair samples.  
If you make your request by mail, you may send the hair sample attached to the hair sample card and request that CLRC then send the testing application form and the hair sample directly to Neogen Canada on your behalf.  
Please note that the lab will only process samples for which they have an application form issued by CLRC, and CLRC will only issue a form when the test(s) have been paid for. For parentage verification, PHA and colour tests, please do not contact the lab directly as this complicates the process. For other tests like A1/A2 milk and horned/polled, you may contact Neogen directly if these are the only tests being requested at that time.
- 4) During the transition from Microsatellite DNA to SNP testing you will need to have all sires SNP tested in order to SNP test their male offspring to verify the sire. In these cases, it is best to request the Microsatellite and SNP combination test for the sire and the SNP test for the offspring. This is the best way if you have multiple male offspring from a particular sire. Alternatively, you can request a combination test for the offspring, so that the offspring can be compared to the sire's Microsatellite DNA on file at Neogen Canada, but this would have to be done on each offspring of that sire. The choice up to you.

### Dexter Fee Schedule for SNP Parentage, Colour, and PHA DNA

Basic Parentage SNP DNA _____	\$30.00
PHA _____	\$35.00
Red Colour _____	\$30.00
Microsatellite & SNP Combination _____	\$60.00

All fees are subject to provincial and federal taxes

## **Guidelines for Collecting & Sending Hair Root Samples**

Collect hair from the tip of the tail (switch). The root ends or follicles contain the DNA. Samples must be 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 cannot be processed, as 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 and then tape the sample to the test application form or hair sample card as shown below.
5. If doing more than one animal, wash hands before starting the next animal or use a clean pair of surgical gloves to reduce the risk of cross contamination of the samples.