TISSUE COLLECTION (ALLFLEX)

How to collect tissue samples using Allflex Tissue Sampling Units (TSU):

**EQUIPMENT NEEDED:**

- Matched Pair Sets (Visual ID and EID) with TSU
- TSU
- Tissue Sampling Unit Box
- Tissue Sampling Applicator Gun

**LOADING THE TISSUE SAMPLING APPLICATOR (GUN):**

1. Ensure the TSU is completely assembled. TSU = needle + connection piece + collection tube.
2. Rotate the black base TSU retention ring on the Applicator Gun to the open position.
3. Insert the TSU into the Applicator Gun so that the clear sample tube sits inside the tube retainer. The red clip should sit flush on top of the Applicator Gun’s needle plate surface.
4. Rotate the black base TSU retention ring on the Applicator Gun to the closed/locked position.
5. Carefully squeeze the Applicator Gun handles until the large piston comes to a stop against the red connection piece of the TSU.
6. You have now completely grabbed the punch cutter needle. After the needle is inserted into the piston you can release the handles of the Applicator Gun.
7. Carefully remove the red connection piece by grasping the top of the red ears and applying pressure in a downward, rolling motion.

**THE APPLICATOR GUN IS NOW CHARGED AND READY FOR USE.**
1. **The TSU is for SINGLE USE only. The tubes and the needles CANNOT be re-used!**

   In the used TSU, a clear RED plunger will be visible indicating the tube already contains a sample and cannot be used again. Here is the difference between an un-used and used TSU:

   ![Un-used punch.](image1) ![Used punch. Note the red plug at the top of the TSU.](image2)

2. Slide the charged Applicator Gun over the ear and position the cutter about 1 cm to 2 cm from the edge of the ear. Try to avoid large veins, ridges and the animal ID tag. This can be done in a very swift and fluid motion.

   ![Side view - Ear punch.](image3) ![Front view - Ear punch.](image4)

3. Remove the TSU tube from the Applicator Gun by opening the retention ring and sliding out the tube. A through cut tissue sample should be clearly visible inside the tube.

   ![Remove TSU tube.](image5) ![Visible sample.](image6)

4. Remove the used needle from the Applicator Gun by pulling the handles apart. Discard the needle safely.

   **Caution:** The needle is very sharp!

   Send sample tube to Zoetis Genetics by following the instructions on the back of this document.
1. Be sure to record the following information:
   > Name
   > Sample date
   > the On-Farm animal ID (Herd Management #).

2. You will notice each punch has a unique ID and barcode written on the base of the tube. **Ensure that you match the visible number on the side of the TSU with the number on the box lid.**

   *For example, Cow 156 was sampled using punch 02068.*

3. As each box of 10 samples is completed and the animal information on the lid is filled out, the lid can be removed by tearing along the perforated hinge line.

4. Place samples into a resealable plastic bag along with the lid of the sample box.

5. Samples may be stored at room temperature, in the fridge or in the freezer until ready to ship. Keep the samples out of direct sunlight as UV rays will denature DNA.

---

**PLEASE BE SURE TO SEND THE LID OF THE BOX ONLY.**

**THE ENTIRE BOX IS NOT NEEDED.**
SAMPLE SUBMISSION

Instructions for Producers and CLARIFIDE® Accredited Veterinarians

FOR EASE OF DATA ENTRY, PLEASE DO NOT SUBMIT HANDWRITTEN FORMS.

PRODUCERS:

1. Fill out the CANADA DAIRY Test Request Form electronically. Both the Producer and CLARIFIDE Accredited Veterinarian (CAV) Information must be complete.

2. Fill out the Animal Sample Information Form electronically.

3. Email the completed submission form to Zoetis Genetics Canada at: Genetics.ca@zoetis.com.

4. Print 2 copies of the CANADA DAIRY Request Form only and sign the Producer Acceptance and Authorization on each copy.

5. Email or fax one signed copy of the CANADA DAIRY Test Request Form to Holstein Canada at ClientServices@holstein.ca or 519-756-3502. Ensure that the number of tests requested appears on this form. Keep this form for your records.

CLARIFIDE ACCREDITED VETERINARIANS:

1. Sign the CLARIFIDE Accredited Veterinarian Acceptance and Authorization on the CANADA DAIRY Test Request Form.

2. Send samples and signed form to: Zoetis Canada
   ATTN: Tere Murphy, O3150A
   16740 Trans-Canada Highway
   Kirkland, Quebec, H9H 4M7

   For more information about sample submissions please contact the Zoetis Genetics customer service at 1-800-506-6683.

6. Submit the samples and one signed copy of the CANADA DAIRY Test Request Form to your CAV.