



Hair Sample Instructions



1. Pull (do not cut) hair from the tail switch, not tail head. Pull hair in the opposite direction from which the hair is laying. This results in less breakage than pulling straight out from the tail.



2. Make sure hair is free of fecal material and dirt. Save the hair roots (follicles), which contain the DNA.



3. Roots must be clearly visible. Approximately 30 hair roots are needed. For animals with finer hair, a minimum of 50 to 60 hairs is desired. For animals younger than three months, TSUs are recommended since hair roots will likely not be visible.



4. Open the collector and peel back the plastic cover. Insert the **root end of hairs** in the middle of the collector. Seal the plastic cover over the hair roots and then close the collector cover tab.



5. Trim excess hair extending from the collector. Write animal ID and other information in the spaces provided (do not cut off follicles, which contain the DNA).



6. Properly record animal IDs on the collector cards and correctly enter that information on your order form to match the DNA to the animal.

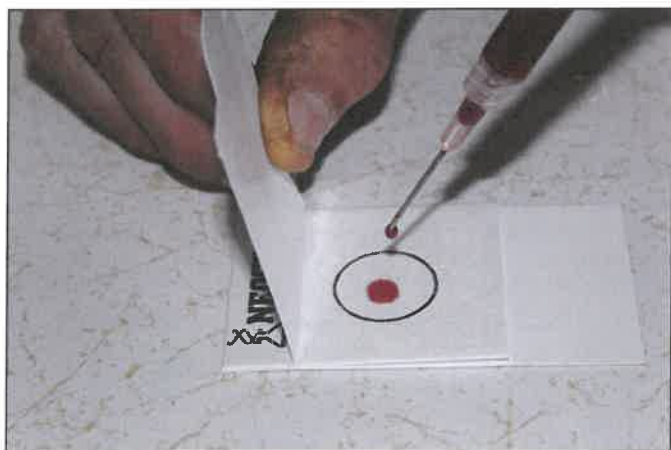
Blood Sample Instructions



1. Appropriately restrain the animal. Locate a blood vessel, visually or by feel. Clean the area so the sample is not contaminated with dirt or manure. Use a clean needle or lancet for every animal.



2. Blood can also be sampled with a syringe or blood tube from the vein on the underside of the tail. This may be easier than sampling blood from an ear vein that is covered with long, thick hair.



3. Collect two to three drops of blood on the collector portion of the collection card by allowing the blood to drip or squirt onto the card. Do not wipe the needle, ear or tail on the collection card. Discard the needle in an appropriate disposal container.



4. Before placing blood drops on blood cards, write an accurate name and animal ID in the spaces provided. Let the cards sit open and air dry before closing cover flap. If blood is sticky and gets on the top of the card, the sample is not useful.





EQUIPMENT NEEDED

To take a tissue sample using the Allflex Tissue Sampling Unit (TSU), the following tools are needed:

1. An Allflex tissue applicator
2. Allflex tissue sample
 - Animals should be restrained during sampling (For example, by using a head gate).



TSU's should be stored at room temperature prior to use out of direct sunlight. Care should be taken not to expose the unused product to extremes of heat or cold prior to sampling.

HOW TO USE THE ALLFLEX TISSUE APPLICATOR



A. LOADING THE ALLFLEX TISSUE APPLICATOR

① Remove a TSU unit from the packaging. TSU's should be assembled as one piece: if they have come apart, reassemble.

② Ensure the tube retainer at the base of the applicator gun is open. Open the TSU retention ring.



③ Insert the TSU into the tissue applicator as shown below.

④ After insertion of the TSU close the retention ring to lock the tube.



⑤ Squeeze the applicator handles together, guiding the TSU tip into place if necessary. You will feel a "Locking" action once properly placed. When fully seated the gun bolt will rest flush against the white metal cutter.

⑥ Release the handle and remove the red plastic clip by pulling it outward. TAKE CARE NOT TO CUT FINGER ON THE METAL CUTTER-IT IS VERY SHARP.



⑦ The applicator is now loaded and ready to take a sample. All parts are for one use only; do not re-use metal cutters.

B. TAKING THE SAMPLE

① Ensure the tissue applicator is loaded with an unused tissue punch (the red plunger is visible in used punches).



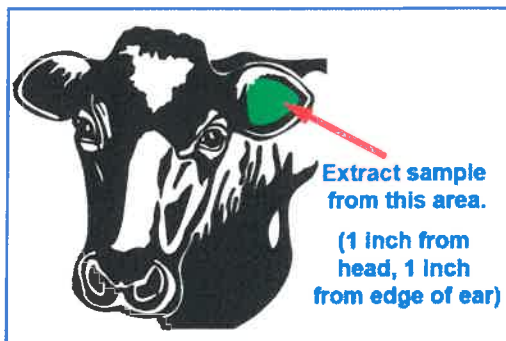
Un-used punch



Used punch

② Slide the gun over the ear, and position the cutter approximately 1 inch from the edge of the ear, taking care to avoid any obvious veins and ridges.

③ Squeeze handles together to take a sample and then release to free the ear. Try to do this in one swift, fluid, motion. Move with the animal and don't fight its movements.



④ Remove the TSU tube from the pliers by opening the retention ring and sliding out the tube. Check that the sampling has been successful. If not, discard the sample and re-sample with a new punch.

⑤ Remove the used cutter from the applicator by pulling the handles apart. This will loosen the cutter. Discard safely. CAUTION: THE CUTTER IS VERY SHARP.



Once the tissue sample has been successfully extracted, care should be taken to store the sample at room temperature and away from sunlight for up to a year. We recommend freezing the sample after a year, for long term storage.

Wash applicator with soap and water after each use, thoroughly dry.

