

How to Take a TSU Sample

The Allflex Tissue Sampling Unit (TSU) is an effective way to collect a DNA sample from livestock and is the most efficient to process in the XytoVet laboratory.

Equipment required:

TSU applicator

TSU tubes

TSU storage rack

2D barcode scanner



1. Ensure the animal is safely restrained.
2. Pair a TSU with the animal's details in your software program. Use a 2D scanner to read the barcode on the TSU tube, or enter the number manually.
3. Fit the TSU into the jaws of the applicator and ensure that it can not slide back and forward.
4. Squeeze the handle of the applicator so that the cutter is firm against the applicator shaft, then release the handle and remove the red guard from the tube.
5. Position the cutter of the applicator in the centre of the topside of the animals ear. Squeeze the handle firmly to quickly make the punch.
6. Remove the tube from the applicator. Check that there is a piece of ear in the tube and that the red indicator in the cap is showing. Ensure the tissue is in the buffer liquid and not lodged under the cap. Place tube in TSU rack.
7. Pull the trigger of the applicator back off the centre to release the cutter, and dispose.
8. Complete the XytoVet DNA Request form and email to samples@xytovet.com.au.