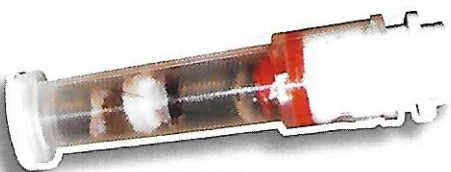


## The nextGen™ Tissue Sampling Unit (TSU) by Allflex

is a unique device for collecting tissue samples. nextGen™ by Allflex maintains Allflex's commitment to innovation, quality and performance. The nextGen TSU provides:

- **EASE OF USE**
  - Loading the Tissue Sampling Unit (TSU) into the special applicator is simple.
  - **Load > Lock > Squeeze**
  - When applied, **the applicator harvests a very small amount of tissue** (less than 5mm in diameter) from the animal's ear. The ear tissue is immediately deposited into the preservation liquid of the TSU where it remains safely until removed by the lab for testing

- **FAST, EASY AND HIGH PERFORMANCE SAMPLING WITH MINIMAL ANIMAL RESTRAINT**
  - Professional expertise is no longer needed for drawing blood or procuring other samples – acclaimed by field technicians
  - The procedure is so fast it is often described as “painless”



### ● SAMPLE VISIBLE

- No need to count hair follicles or guess if enough biological matter (often mucous, semen or blood) is present to produce a good lab result. **With nextGen, you will see the actual tissue sample** and know if there is enough genomic material before sending to the lab.
- Clean, Uncontaminated sample collection



- **ALL AGES AND BREEDS**
  - Unlike some sampling methods, nextGen samples can be taken in animals as young as one-day-old.

## Tissue sampling products



Tissue Sampling Unit



Matched Pair Sets (visual ID and EID) with Tissue Sampling Unit





## ● INDIVIDUAL 2D BARCODE

- Every sample contains a **unique 2D barcode to identify the sample**
- nextGen™ TSU can also come as an integrated kit including your preferred Allflex tag combination all carrying the same identification code.

## ● COLLECTING TISSUE SAMPLES HAS NEVER BEEN MORE EFFICIENT AND COST EFFECTIVE.

Scientific advancements in the mapping of livestock genomes along with continued development of affordable analytics has changed the sampling industry – making it **easier and quicker for producers** to use DNA for:

- Genomic Value
- Parentage Verification
- Disease Diagnostics



# Stop playing with genetics



with **NEXTGEN** genomics becomes easy



FERTILITY



HEALTH



MILK YIELD



LONGEVITY



PARENTAGE



PROFITABILITY

# Allflex

Identification is in our genes



tissue sampling technology

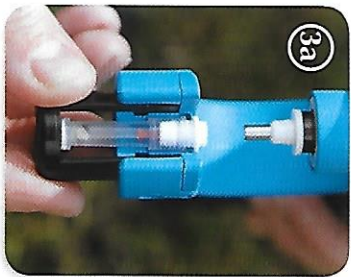
by **Allflex**

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email : sales@allflex.co.uk

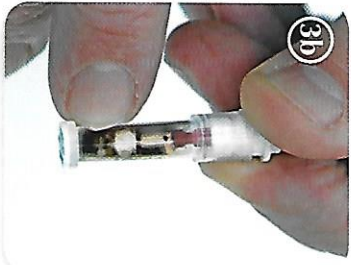




# TISSUE SAMPLING UNIT (TSU) USER MANUAL



3a. Remove the TSU tube from the pliers by opening the retention ring and sliding out the tube.



3b. A through cut tissue sample should be clearly visible inside the tube.



4. Remove the used needle from the pliers by pulling the handles apart. This will loosen the needle and make it easily removable.  
The needle is no longer of use as it no longer contains the red plunger.

DISCARD THE NEEDLE SAFELY.  
CAUTION : THE NEEDLE IS VERY SHARP,  
MIND YOUR FINGERS!



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Stop playing  
with genetics

- FERTILITY
- HEALTH
- MILK YIELD
- LONGEVITY
- PARENTAGE
- PROFITABILITY

Allflex

Identification  
is in our genes

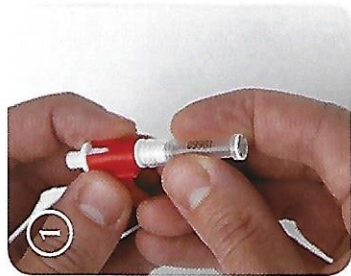


To take a tissue sample using the Allflex Tissue Sample Unit (TSU) the following point is important:

- Animals should be restrained during sampling.

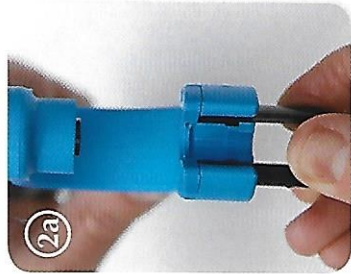
## ● HOW TO USE THE ALLFLEX TISSUE SAMPLE UNIT (TSU)

### A. LOADING THE ALLFLEX TISSUE APPLICATOR



1

1. Take an assembled TSU (needle + connection piece + collection tube).



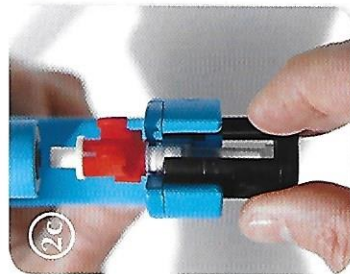
2a

2a. Open the TSU retention ring on the pliers



2b

2b. and insert the TSU as shown in the pictures,



2c

2c. after insertion of the TSU close the retention ring to lock the tube.



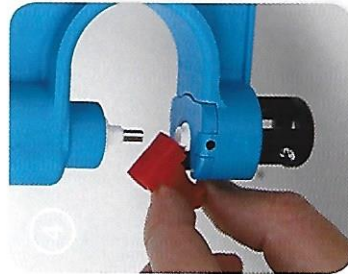
3a

3a. Carefully squeeze the plier handles until the large piston comes to a stop against the red connection piece.



3b

3b. You have now completely grabbed the needle. After the needle is inserted into the piston you can release the handles.



4

4. You can now easily remove the red connection piece by clicking it off using the two red handles.

TAKE CARE NOT TO CUT FINGERS ON THE METAL NEEDLE. IT IS VERY SHARP!

5. The pliers are now charged and ready for use. At first this charging action seems long but with experience this should only take a couple of seconds.

### B. TAKING AN EAR NOTCH SAMPLE

1. The TSU is for SINGLE USE only, both the tubes and the needles can't be re-used! Below the difference between a non-used and a used TSU.



1a

un-used punch



1b

used punch

In the used TSU a clear RED plunger will be visible indicating the tube already contains a sample and can't be used again.

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



2a



2b