

# Tissue Sampling Unit Tech Sheet

Allflex Tissue Sampling Units (TSU) are a rapidly growing sample type for DNA testing in livestock. This technology, while highly advanced, makes it easy to take DNA samples during routine cattle-handling processes while providing high-quality samples for genomic testing. Neogen® has worked closely with Allflex to enhance the convenience and reliability of DNA testing in the field.

## Why TSUs?

- Faster, easier, cleaner
- Less hassle, more weather proof
- Sample at any age, even a day-old calf
- Neogen can use same TSU for BVD PI screening and genotyping
- Archived by breed associations
- Uniquely barcoded, preserves high-quality DNA

## One Simple Step Opens a Whole World of Insightful Predictions

Cattle Producer Advantages with TSUs:

**Fast** – Loading the applicator, taking the sample and recording the animal ID can take as little as 10 seconds per head.

**Easy** – With one squeeze, a DNA ear notch sample is taken, sealed and preserved in a uniquely bar-coded vial.

**Clean** – Unlike blood or hair, TSUs have little chance for cross contamination. The vial protects the sample from weather and grime.

**Flexible** – Take DNA while handling young calves or during animal-health protocols.

## More Benefits with TSUs:

### More data from one sample

- Tissue in the vial can be used for multiple tests.
- Screen samples for BVD PI and run genomic tests.
- Store at the lab or breed association for future testing.

### Integration with animal ID

- Match with visual tags and/or EID tags using the same identifier.
- Integrate with other record keeping or data collection.
- RFID readers and downloadable CSV files are available from Allflex.
- As export markets look to U.S. beef producers, ID needs change. Your ID and TSU system can meet your needs both in marketing and DNA testing.



Visual tag and EID match TSU barcode and visual number on the vial.

# Putting TSUs To Work For You

## Collecting DNA while working heifer calves



1. Rancher separates cows from heifer calves.



2. TSU loaded into applicator.



3. Heifer calves in chute are weighed, vaccinated, wormed and DNA sampled.



4. Heifer calf ID noted on TSU vial container. Weight data collected.

### When is a good time to collect cattle DNA?

Any time cattle are handled. Samples can be taken at birth, branding or calf processing, vaccination, weaning and breeding soundness exams. Earlier DNA collection helps producers take greater advantage of DNA test findings.

### Can TSUs be stored?

When processing DNA, Neogen reseals and stores the vial for future use. Some breed associations get them back from the lab and archive the samples. Producers can store vials out of direct sunlight at room temperature for one year and after that freeze them.

### What is the bottom line?

Seedstock producers using GeneSeek® Genomic Profiler™ and commercial cattle producers using Igenity® Profiles can take full advantage of the benefits of TSUs to collect DNA.

### Where can producer purchase Allflex TSUs?

Purchase Allflex TSUs from Neogen at [Igenity.com](http://Igenity.com). They also can be purchased from animal health suppliers, breed associations or Allflex.



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