

Wet Tissue Sampling Unit (TSU) - FAQ

Wet TSU's cannot be used for BVD testing on calves younger than 35 days old

Wet TSU's must be stored in fridge, NOT freezer

What is a wet TSU?

A wet TSU is a tissue sampling unit that contains a liquid preservative that helps to stabilize the DNA from the time of sampling to the time of testing.



What is the difference between wet and dry TSU's?



Dry TSU's have a blue component and contain NO liquid in the punch. Dry TSU's are compatible with A2/A2, BVD Ag and tissue BVD PCR testing.

Wet TSU's are white and contain liquid preservative, as shown in the picture above. Wet TSU's are compatible with DNA, A2/A2 and BVD Ag testing.

What test's can I do using wet TSU's?

Wet TSU's MUST be used for DNA testing, they can also be used for A2/A2 testing and BVD Ag testing of calves older than 35 days at the time of sampling.

How should I store wet TSU's?

Store Wet TSU's in cool dark place before sampling once samples are taken, Wet TSU's must be stored in the fridge, they **MUST NOT** be frozen. **Samples taken using wet TSU's should remain viable for many months in the fridge.**

How do I order wet TSU's?

You are able to order wet TSU's via the LIC Shop on the LIC website, or by contacting your Agri Manager or 0800 GENEMARK.

How should I send samples taken with wet TSU's to GeneMark for testing?

You are able to place them within a tracked courier bag and send them to GeneMark, 140 Riverlea Road, Hillcrest, Hamilton. Samples do not require chilling in transit.

Why has GeneMark® changed to wet TSU's for DNA testing?

GeneMark has identified that wet TSU's perform significantly better than dry TSU's when processed through the GeneMark lab. This could be due to the preservative helping to stabilize the DNA and improving the quality of the sample.

I have surplus stock of dry TSU's - what should I do with them?

If you hold complete, unused boxes of dry TSU's, you are able to return these to the LIC warehouse, 119 Maui street, Pukete, Hamilton and receive a credit for this stock on your LIC account. They will be reintroduced to our stock and be reused for alternative testing. We are unable to credit used boxes or individual dry TSU's, boxes sent back must be full.

Can I BVD test calves less than 35 days using wet TSU's?

No, LIC are unable to process wet TSU's for BVD testing calves less than 35 days old. BVD testing for calves less than 35 days old uses PCR methodology and the liquid preservative within the wet TSU affects the RNA within the sample making it not viable to test.

Why can I test calves over 35 days using wet TSU's?

For calves over 35 days old samples are processed using a BVD Antigen ELISA test. This test uses different methodology to PCR and is not impacted by the preservative within the TSU.

How many samples should I take if I DNA test and BVD test calves less than 35 days old?

If you sample calves less than 35 days old for DNA and BVD you will need to take 2 samples (wet TSU for DNA and dry TSU for BVD). You will not be charged for the dry TSU's for BVD testing in this instance.

Can I A2/A2 test with wet TSU's?

A2/A2 testing is compatible with both wet and dry TSU's

If you have any further questions please call our GeneMark team on 0800 436 362.