

INTRODUCTION

INTENDED USE

The TF TRICHIT™ device is a collection system for *Tritrichomonas foetus* from bovine preputial samples. The TRICHIT™ device is time-efficient and increases specimen collection volume while reducing blood contamination. The device contributes to the use of Biomed's proprietary Gold-Standard TF medium; a selective media for the transport and growth of *T. foetus*, simultaneously inhibiting the growth of other organisms which can interfere with a reliable diagnosis.

EXPLANATION

Though it varies by state, the increasing trend of regulatory requirements and industry recommendations for *Tritrichomonas* testing and classification puts efficient collection and testing at a very high demand; especially when some regulations only require one negative-result classification test. This level of accuracy and need is what makes the TRICHIT™ device and Biomed TF medium unique and reliable.

The Biomed TF InPouch™ and TF Transit Tube culturing and diagnostic devices can be used in tandem with the TRICHIT™. The following instructions outline the TRICHIT™ being used with both InPouch™ and Transit Tube diagnostic test devices. Visit biomeddiagnostics.com for more details and downloadable instructions for use for the TF InPouch™ or TF Transit Tube.

PRINCIPALS OF THE PRODUCT

The TF TRICHIT™ is designed to facilitate and simplify the collection of *T. foetus* by improving the scraping edge of the standard infusion tube and increasing the scraping surface from 0.38" (circumference of the infusion tube opening) to 1.57" (the scraping circumference of the TRICHIT™ cup) a factor of over 400%. This device conveniently works with Biomed TF devices and together supports the following user needs:

1. Ease of sample collection and inoculation
2. Soft silicone conical tip reduces trauma to the bull
3. Increased sample volume and improved quality
4. Proprietary selective medium for TF growth
5. Direct microscopic observation of sample
6. Self-contained culture system
7. Safe transport and preservation of the specimen
8. PCR-compatible

USING THE TEST

SAMPLE COLLECTION

Gather Materials

Materials needed for the Test:

- TRICHIT™ device(s)
 - Disposable gloves
 - Sterile saline wash
 - Paper towels and scissors
 - Biomed TF InPouch™/Transit Tube device(s) – if using
 - 12-20cc disposable syringe with luer slip
- NOTE:* Bulls should have one to two weeks sexual rest before testing for Trich.

Prepare Sample

1. Always use a leg rope restraint. Prepare the bull's prepuce by clipping excess hair and washing with sterile saline (not hot water) into the distal prepuce, wipe clean with a paper towel.
2. Prepare TRICHIT™ - attach a clean disposable syringe to the collection tube, as seen below.



3. Have the inoculation device of choice ready for sample introduction. If using a Biomed device: Prepare the device label with patient information. Do not open until sample is acquired.

Collect Sample

Insert the TRICHIT™ collection cup into the fornx. Apply slight negative pressure to the syringe as the device is slowly withdrawn with smooth back-and-forth strokes. **Do not be aggressive.** Excessive pressure will cause the mucosal lining to roll and occlude the opening into the pipette. Minimize aspiration by discontinuing negative pressure when the device tip is withdrawn 4-6 inches from the prepuce orifice.

INOCULATION

Introduce sample to the media or testing method of choice. Express the contents by applying pressure to the plunger.

To inoculate a Biomed TF device with the sample, please see instructions below.

Prepare Biomed Device

InPouch™: Express the liquid into the lower chamber. Open the pouch by tearing off the top at the pre-formed notches. Pull the white tabs in opposite directions to open and secure the mouth of the pouch.

Transit Tube™: Remove tube from packaging and aseptically remove and reserve the cap.

Inoculate Sample

InPouch™: Insert the TRICHIT™ collection cup into the pouch and introduce ~0.5 – 1.0 mL of sample into the chamber. Squeeze a small amount of the lower-chamber liquid into the upper chamber to flush the sample. Use caution to not create bubbles or foam. Discard the TRICHIT™ collection device.



Transit Tube™: Insert the TRICHIT™ collection cup into the Transit Tube and introduce ~0.5 – 1.0 mL of sample into the fluid. Aseptically re-cap the tube using the reserved cap. Discard the TRICHIT™ collection device.



Integrate Sample

InPouch™: Express the entire contents of the upper chamber liquid into the lower chamber; avoid trapping air. Roll the pouch top (tightly) until the wire-tape rests at the top of the label. Fold the wire tabs to seal the pouch.

INCUBATION

Follow the recommendations of your selected diagnostic laboratory for media choice, sample preparation and transportation. If using the Biomed TF Device(s), place the pouch or tube vertically at 35°C - 37°C for up to 6 days. Both TF Transit Tube and InPouch™ are designed for safe transport. Inoculated Biomed TF tests should be transported within 48 hours after inoculation and maintained at 15°C - 37°C.

SAFETY

Always use a leg restraint on bulls when collecting samples. Do not use excessive force or pressure when collecting the sample.

DISPOSAL

The TF TRICHIT™ and culture media(s) could potentially contain live, infectious material; the devices should be sterilized by autoclaving at 121°C for 20 minutes or other suitable means of sterilization and disposal of BSL-2 organisms.

REFERENCES

BonDurant. Vet Clin North Am Food Anim Pract. 1997. 13(2):345-61

Thomas, *et al.* Agri-Practice. 1990. 11:13-17

Borchardt, *et al.* Veterinary Medicine. 1992. 11:104-112

TRICHIT™ website, www.trichit.com

TF TRICHIT™

A COLLECTION DEVICE
FOR BOVINE *Trichostrongylus axei*

TF TRICHIT™ device
Catalog No. 1000-1010 10 Pack

Biomed TF InPouch™
Catalog No. 11-1010 10 Pack
Catalog No. 11-1003 100 Pack

Biomed TF Transit Tube
Catalog No. 60-1010 10 Pack
Catalog No. 60-1050 50 Pack

For Veterinary *In Vitro* Use Only

TRICHIT™ gets it

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