

## Immediate Wet Mount

For immediate wet mount examination: Before expressing sample to lower chamber and prior to incubation, roll the top edge down twice and fold over the end tabs to seal the pouch; observe the sample in the top chamber microscopically.

- *T. gallinae*/*T. gallinarum* gravitate to the bottom and side edges of the pouch chamber.
- Verify that your field of focus is on the liquid and not the textured plastic film layer of the InPouch TG/ G material.
- Do not mistake Brownian motion or small particles for evidence of *T. gallinae*/*T. gallinarum* activity. *T. gallinae*/*T. gallinarum* are relatively large (6 -18 µm) and motile.

## Additional Product Notes

- **NEVER** refrigerate or freeze the specimen when culturing. Refer to reference lab sample acceptance requirements if results are to be confirmed by PCR testing.
- Complete each label with the sample information.
- All specimens should be handled according to CDC-NIH recommendations for Biosafety Level 2 (BSL-2) organisms.

## Storage

Expiry date is provided on each InPouch TG/ G device.

## Quality Control

This product has been tested and meets the CLSI (formerly NCCLS) Approved Standard for commercially prepared media (M22-A3). At the time of manufacture, quality control testing is performed on each lot of InPouch TG/ G. The ability of the media to support expected growth, selectivity and morphology is verified by lot.

InPouch TG/ G is manufactured in accordance with controlled procedures at Biomed Holdings LLC (Formerly, Biomed Diagnostics Inc). Each lot undergoes an initial QC performance testing prior to release for consumer use. Additional performance testing is repeated at specific intervals throughout the marked shelf-life of each lot to ensure absolute reliability of the product.

## References

1. Amin, A., I. Bilic, D. Liebhart, and M. Hess. 2014. Trichomonads in birds-a review. *Parasit.* 141: 733-747.
2. Collantes-Fernández E, Fort MC, Ortega-Mora LM, Schares G. Trichomonas. *Parasitic Protozoa of Farm Animals and Pets.* 2017 Nov 8:313-88. doi: 10.1007/978-3-319-70132-5\_14. PMID: PMC7122547.
3. Purple K, Amacker T, Williams C, Gerhold R. Artificially decreased dissolved oxygen increases the persistence of *Trichomonas gallinae* in water. *Int J Parasitol Parasites Wildl.* 2019 Apr 7;9:100-3. <https://doi.org/10.1016/j.ijppaw.2019.04.002>

**Symbol glossary:** [biomeddiagnostics.com/l/symbol-glossary](https://biomeddiagnostics.com/l/symbol-glossary)

## Document Revision History

**Rev. A, Aug 2025**

Removed QRI Cert. scanner, corrected Catalog number for 100 test, updated manufactured by, company address and logo.



Manufactured by:  
Biomed Diagnostics, a DCN Dx brand  
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[biomeddiagnostics.com](https://biomeddiagnostics.com)

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## InPouch™ TG/G - Avian

A selective culture system for the diagnosis of  
*Avian Trichomonas gallinae*/  
*Tetratrichomonas gallinarum*

Catalog No.	12-601-001	10 Tests
Catalog No.	12-601-002	100 Tests

**For Veterinary Use Only**

# Introduction

## Intended Use

InPouch™ TG/ G is a self-contained system for the detection of *Trichomonas gallinae*/*Tetratrichomonas gallinarum* from avian oral, crop, cloacal, intestinal or fecal specimen. The proprietary medium is selective for the transport and growth of *T. gallinae*/*T. gallinarum*, while inhibiting the growth of bacteria and fungi that may interfere with a reliable diagnosis. InPouch™ TG/ G is useful for detection or diagnosis of *T. gallinae*/*T. gallinarum* within 48-hour post-inoculation and incubation at 40°C.

## Description and Principle

Avian trichomoniasis transmitted by the flagellated protozoan parasites *T. gallinae* and *T. gallinarum* displays varied pathological manifestations that can lead to severe illness and death in both domestic and wild birds.

InPouch TG/ G is designed to facilitate and simplify the detection of *T. gallinae*/*T. gallinarum* as the protozoa is infrequently found in direct microscopic examination of clinical specimens, and serological methods of diagnosis are cumbersome. The InPouch TG/ G device conveniently supports the following user needs in a single-exposure system:

- Ease of inoculation
- Proprietary medium selective for *Trichomonas gallinae*/*Tetratrichomonas gallinarum* growth
- Self-contained culture system and direct microscopy of replicating trichomonad
- Compatible with direct incubation
- Safe transport and preservation of the specimen
- PCR compatible

## Reagents and Appearance

InPouch™ TG/ G contains amino acids, carbohydrates sources, salts and antimicrobial agents in a buffered solution formulated to enhance the positive detection of *T. gallinae*/*T. gallinarum*.

## Specificity

InPouch TG/ G medium has been shown to be effective in enhancing the growth and microscopic detection of *T. gallinae* and *T. gallinarum* (within 48 hours of incubation at 40 ° C) from wild and domestic bird samples taken from the oral cavity and/ or intestinal tract. When propagating individual protozoa (*T. gallinae* or *T. gallinarum*) in the InPouch TG/ G medium, incubation at 37°C may be tested as different strains may have temperature preferences.

## Precautions, Safety and Disposal

Read the Safety Data Sheets (SDSs) and follow the handling instructions. Wear appropriate protective eyewear, clothing and gloves.

InPouch TG/ G is for veterinary protozoa identification and test results only. Consult your local (e.g., State Department of Agriculture and/ or Wildlife) regulations before use. Some states require that only certified veterinarians collect and read avian TG/ G cultures and/ or submit samples for PCR testing.

# Procedure

## Key Notes Regarding Specimen Collection

### Sample Preparation

Sample/ specimen should be collected by qualified personnel. Oral, crop, cloacal, intestinal, or fecal specimen collected with cotton tipped swabs is suitable for inoculating the InPouch TG/ G medium. Recommendation: Specimen from different anatomical sites of a bird may be inoculated into separate InPouch TG/ G medium. Such specimen from a single bird may be combined if desired.

**Note:** No pre-wash of oral cavity is necessary for sample collection. Fecal specimen should not be more than a pea size.

### Materials Provided

- InPouch TG/ G test(s)

### Materials Required but Not Provided

- Sample (see “Key Notes Regarding Specimen Collection”, above)
- Cotton tipped swabs
- Laboratory incubator capable of incubation at 40 ° C
- Microscope (≥100x)

InPouch TG/ G growth/ detection medium suppresses but does not eliminate yeast and bacterial growth. A build-up of gas from microbial growth can be vented by opening the pouches inside a BSL-2 rated biological safety cabinet.

**WARNING:** This product contains chemicals known to the State of California to cause cancer, birth defects and other reproductive harm.

Once the InPouch TG/ G has been inoculated and resealed, re-open only in a biological safety cabinet. Because of the potential for containing infectious materials, the pouch must be destroyed by autoclaving at 121 ° C for 20 minutes or other suitable means for sterilization and disposal of BSL-2 organisms.

## Incubation

Incubate the InPouch TG/ G vertically at 40 ° C for 48 hours. Read result **within first 48-hour incubation**. If no growth is observed at 48-hour incubation, continue the incubation for up to 6 days with daily observation for growth. InPouch TG/ G is designed for safe transport, if needed. Inoculated InPouch TG/ G tests should be transported within 48 hours after inoculation and maintained at 15-37°C.

### Prepare InPouch

Remove the InPouch TG/ G from the package and manually express the liquid so that all the liquid is in the lower chamber. Open the pouch by tearing off the top. There is a pre-formed score to facilitate tearing. Use the integral white tabs to open and secure the mouth of the pouch open.

### Inoculate Sample

Insert the sample into the upper chamber of the pouch. Squeeze a small amount of liquid from the lower chamber to the upper pouch chamber to flush the sample. Minimize the introduction of bubbles or foam. Dispose the swab in a biohazard waste. Avoid environmental contamination.

### Integrate Sample

Express the entire content of the InPouch into the lower chamber. Avoid trapping air. Roll the pouch top tightly, until the wire-tape is at the top of the label. Fold the wire tape and tabs to seal the pouch.

## Microscopic Observation (Reading Result)

Using the 10X - 40X objective lens, read result **within the first 48 hours** of incubation and **no more than the 48-hour** of incubation at 40 ° C. If no growth is observed at 48-hour incubation, continue the incubation for up to 6 days with daily observation for growth. Note that InPouch TG/ G is designed for detection/ diagnosis purposes as described within this insert. See the tips below for optimal test performance:

### Important Tips

1. To search for the presence of microorganisms, place a viewing clip horizontally over the lower chamber of the InPouch and close (the clip is optional). Place InPouch TG/ G on the microscope stage under low power (10X magnification) to look for trichomonads. Use a higher power if necessary for confirmation and/ or morphological assessment.
2. Observation of 1 to 10 live, motile *T. gallinae*/*T. gallinarum* is all that is required for a presumptive positive result. Continue incubation and repeat the microscopic observation daily for six days before a negative result is reported.
3. Too much fecal material from avian intestinal samples can ruin the test by making the medium too cloudy for examination. When necessary, subculture the suspect InPouch TG/ G tests into another InPouch TG/ G.
4. While differential staining can sometimes be of help in species identification based on the number of flagella, PCR testing can be used for further species identification.