



"Ready & Easy-to-use" kits.  
Lyophilised product



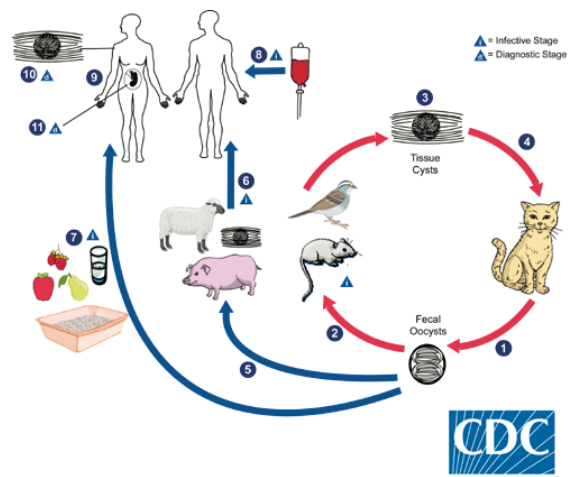
Transport and storage at room temperature.  
Shelf-life: 24 months

RUO Research Use Only

TROPICAL & VECTOR-BORNE  
**TGO**  
MONOPLEX

## Toxoplasma gondii

- ▶ Toxoplasmosis is a worldwide parasitic infection caused by the intracellular parasitic protozoan *Toxoplasma gondii*. The infection is usually asymptomatic in immunocompetent patients and more rarely results in fever, lymphadenopathy, or retinochoroiditis. In contrast, immunocompromised patients can experience severe neurologic, ocular, pulmonary, or disseminated disease. Humans can become infected by any of several routes:
  - Eating undercooked meat of animals harboring tissue cysts.
  - Consuming food or water contaminated with cat feces or by contaminated environmental samples (such as fecal-contaminated soil or changing the litter box of a pet cat).
  - Blood transfusion or organ transplantation.
  - Transplacentally from mother to fetus.
- ▶ Toxoplasmosis is well known for its pathogenicity during pregnancy. **Congenital infection may induce spontaneous abortion or serious sequelae when maternal infection occurs during pregnancy.**
- ▶ A rapid and accurate diagnosis is required to initiate treatment. Diagnosis with radiological findings, histology, tissue culture, or inoculation into mice is difficult, time consuming, or impractical. Therefore, **molecular diagnosis based on qPCR is the one of choice, which has also become crucial for the diagnosis of toxoplasmosis in immunocompromised patients.**



Life cycle of *Toxoplasma gondii*. <https://www.cdc.gov/dpdx/>

## Toxoplasma gondii

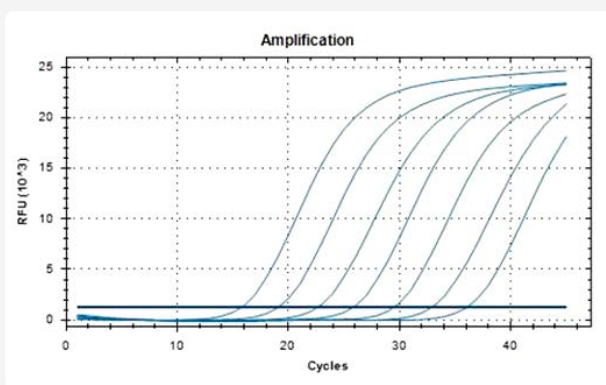
**VIASURE *Toxoplasma gondii* Real Time PCR Detection Kit** is a real time PCR assay designed for the qualitative detection and differentiation of DNA from *Toxoplasma gondii* from cerebrospinal fluid (CSF) and blood specimens from individuals suspected of toxoplasmosis by their healthcare professional (HCP).

**This test is intended for use as an aid in the diagnosis of *Toxoplasma gondii* infection, in combination with clinical and epidemiological risk factors.**

DNA is extracted from clinical specimens, amplified using real time PCR, and detected using fluorescent reporter dye probes specific for *Toxoplasma gondii*.

### ► Analytical sensitivity

**VIASURE *Toxoplasma gondii* Real Time PCR Detection Kit** has a detection limit of 40 DNA copies per reaction, equivalent to 4 DNA copies/μL of sample, for *Toxoplasma gondii*, with a positive rate of ≥95%, on blood samples.



**Figure 1.**

Dilution series of *Toxoplasma gondii* ( $10^7$ - $10^1$  copies/rxn) template run on the CFX96™ Real-Time PCR Detection System (Bio-Rad) (channel FAM).

### ► References - VIASURE *Toxoplasma gondii* Real Time PCR Detection Kit

1 x 8-well strips, low profile ..... VS-TGO101LRUO  
6 x 8-well strips, low profile ..... VS-TGO106LRUO  
12 x 8-well strips, low profile ..... VS-TGO112LRUO  
96-well plate, low profile ..... VS-TGO113LRUO  
9 x 4-well strips, Rotor-Gene® ..... VS-TGO136RUO

1 x 8-well strips, high profile ..... VS-TGO101HRUO  
6 x 8-well strips, high profile ..... VS-TGO106HRUO  
12 x 8-well strips, high profile ..... VS-TGO112HRUO  
96-well plate, high profile ..... VS-TGO113HRUO  
18 x 4-well strips, Rotor-Gene® ..... VS-TGO172RUO

*For more information and use procedure, read the instructions for use included in this product.*