

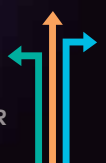
# VIASURE

## *Giardia lamblia* Real Time PCR Detection Kit

### Pathogen and product description

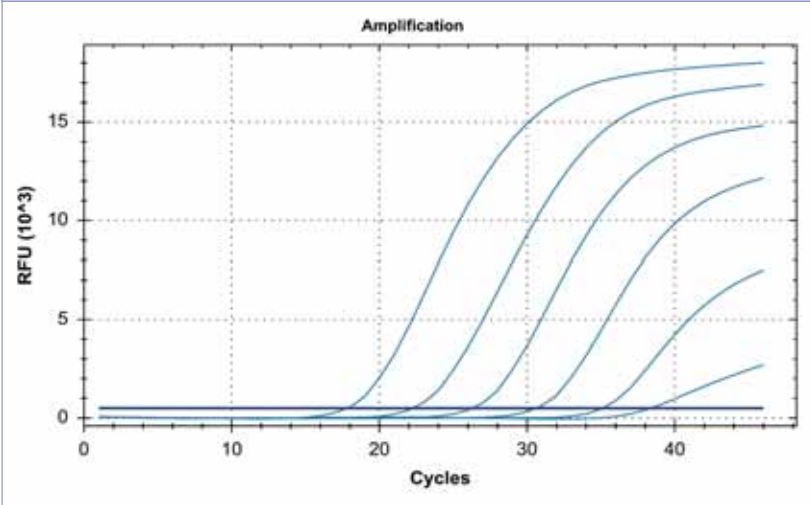
**S**ix species have been identified in the *Giardia* genus, which infect the small intestine of a wide range of vertebrate hosts. Among them, *Giardia lamblia* (synonyms are *Giardia duodenalis* and *Giardia intestinalis*) is a common protozoan parasite which contributes to the enormous burden of diarrheal diseases with over 250 million symptomatic human infections per year.

VIASURE *Giardia lamblia* Real Time PCR Detection Kit is designed for the diagnosis of gastroenteritis caused by *Giardia lamblia* in human stool samples. After DNA isolation, the identification of *Giardia lamblia* is performed by the use of target specific primers and a fluorescent-labeled probe that hybridizes to a conserved region with the 18S rRNA gene.



**Analytical sensitivity**

**VIASURE** *Giardia lamblia* Real Time PCR Detection Kit has a detection limit of  $\geq 100$  DNA copies per reaction



Dilution series of *Giardia lamblia* ( $10^7$ - $10^2$  copies/rxn) template run on the Bio-Rad CFX96 Touch™ Real-Time PCR Detection System.

**Components**

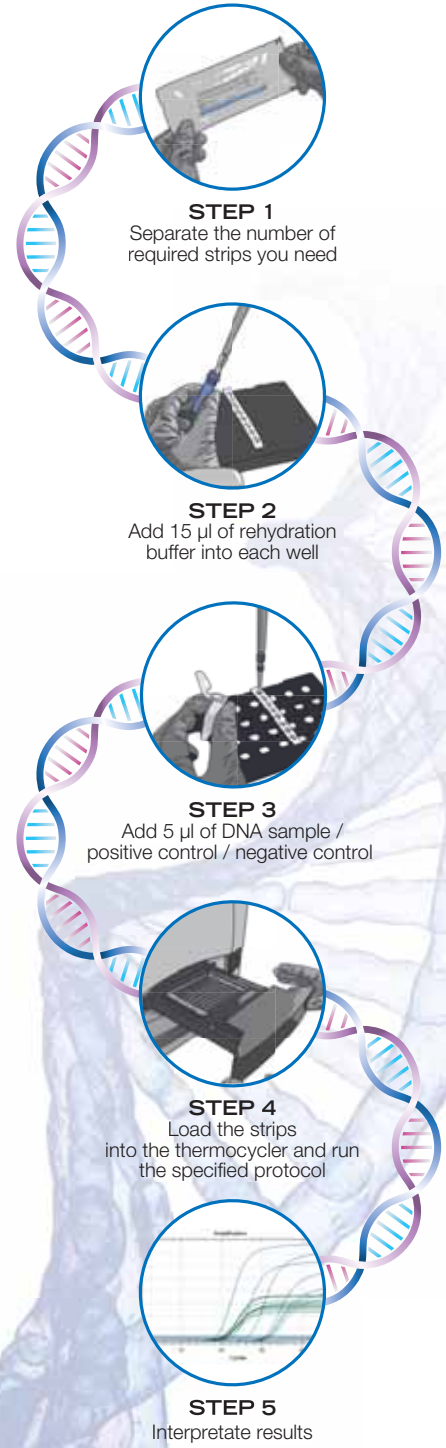
| Reagent/Material                        | Description  | Quantity            |
|---|--|---------------------|
| <i>Giardia lamblia</i> 8-well strips    | A mix of enzymes, primers-probes, buffer, dNTPs, stabilizers and Internal control in stabilized format | 6/12 X 8-well strip |
| <i>Giardia lamblia</i> 96-well plate    | A mix of enzymes, primers-probes, buffer, dNTPs, stabilizers and Internal control in stabilized format | 1 plate             |
| Rehydration Buffer                      | Solution to reconstitute the stabilized product  | 1 vial x 1,8 mL     |
| <i>Giardia lamblia</i> Positive Control | Non-infectious synthetic lyophilized DNA   | 1 vial              |
| Negative Control                        | Non template control   | 1 vial x 1 mL       |
| Water RNase/DNase free                  | Water RNase/DNase free   | 1 vial x 1 mL       |
| Tear-off 8-cap strips                   | Optical caps for sealing wells during thermal cycling  | 6/12 X 8 cap strip  |
| Shell Frame Grid                        | Shell Frame Grid   | 1 or 2              |

**Kit References**

| Reference  | Description   |
|------------|---|
| VS-GIA106L | Viasure <i>Giardia lamblia</i> Real Time PCR Detection Kit 6 x 8-well strips, low profile   |
| VS-GIA106H | Viasure <i>Giardia lamblia</i> Real Time PCR Detection Kit 6 x 8-well strips, high profile  |
| VS-GIA112L | Viasure <i>Giardia lamblia</i> Real Time PCR Detection Kit 12 x 8-well strips, low profile  |
| VS-GIA112H | Viasure <i>Giardia lamblia</i> Real Time PCR Detection Kit 12 x 8-well strips, high profile |
| VS-GIA113L | Viasure <i>Giardia lamblia</i> Real Time PCR Detection Kit 96-well plate, low profile       |
| VS-GIA113H | Viasure <i>Giardia lamblia</i> Real Time PCR Detection Kit 96-well plate, high profile      |

**Work Flow**

One-step rehydration of wells and add your extracted DNA



**STEP 1**  
Separate the number of required strips you need

**STEP 2**  
Add 15  $\mu$ l of rehydration buffer into each well

**STEP 3**  
Add 5  $\mu$ l of DNA sample / positive control / negative control

**STEP 4**  
Load the strips into the thermocycler and run the specified protocol

**STEP 5**  
Interpretate results



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