

VIASURE

Dientamoeba fragilis Real Time PCR Detection Kit

Pathogen and product description

Initially classify as an amoeba, *Dientamoeba fragilis* is actually a protozoan parasite that belongs to the *Trichonemad* order. It has been associated with gastrointestinal disease worldwide showing symptoms as diarrhea, loose stools and abdominal pain with a highly variable incidence, ranging from 1.1 to 20%. Its transmission mode remains unclear, and both faecal-oral route and vector transmission have been suggested.

Despite the frequency of *D. fragilis* presence, it is still neglected as a significant pathogen due to the lack of a routinely diagnostic in many laboratories. Detection of *D. fragilis* trophozoites on the permanent stained smear is the current standard. Trophozoites range from 5 to 15 µm in length, 9 to 12 µm in

width, and contain 1 to 2 characteristically fragmented nuclei. Diagnosis is often only possible by experienced technologists, leading to many potentially missed infections. Recently, PCR-based diagnostic methods have been developed for diagnosis of *D. fragilis*, showing at least a three-fold sensitivity increase compared to permanent stained smears.

VIASURE *Dientamoeba fragilis* Real Time PCR Detection Kit is designed for the diagnosis of *Dientamoeba fragilis* in human stool samples. After DNA isolation, the identification of *Dientamoeba fragilis* is performed by the amplification of a conserved region of the 5.8S rRNA gene using specific primers and a fluorescent-labeled probe.

Lyophilised product

"Ready & Easy-to-use" Kits



Long term stability.
Transport and storage at room temperature



Shelf-life: 24 months
(for all our qPCR products)



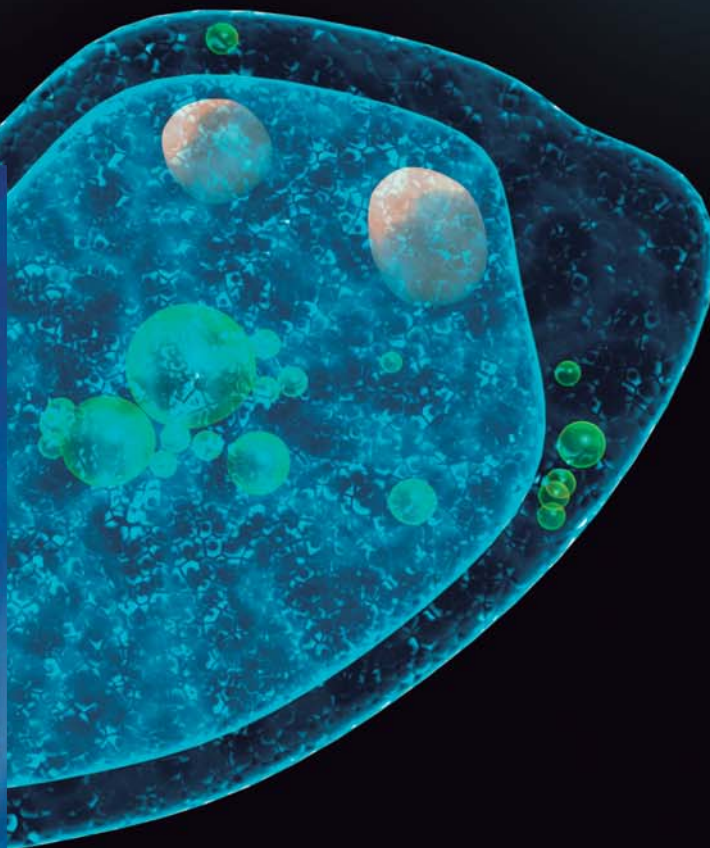
From 1 up to 96 samples per assay



High sensibility, specificity and reproducibility



Validated according to ISO 13485 and CE marked

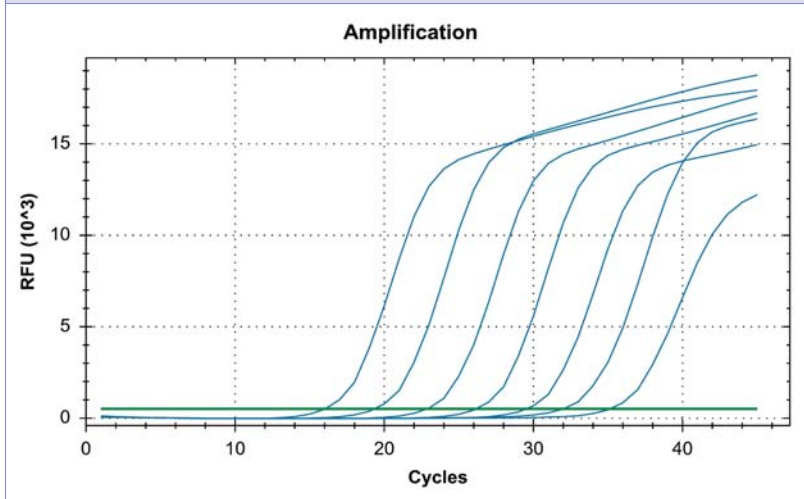


THE REAL ONE STEP qPCR



Analytical sensitivity

VIASURE *Dientamoeba fragilis* Real Time PCR Detection Kit has a detection limit of ≥ 10 DNA copies per reaction.



Dilution series of *Dientamoeba fragilis* (10^7 - 10^1 copies/rxn) template run on the Bio-Rad CFX96 Touch™ Real-Time PCR Detection System.

Components

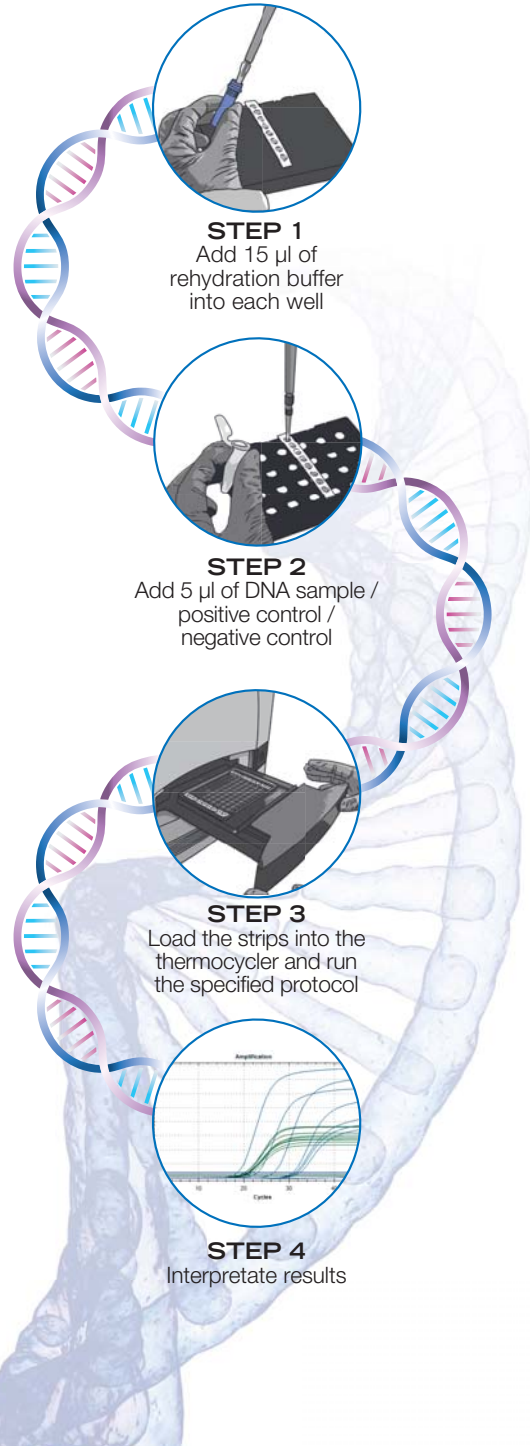
Reagent/Material	Description	Quantity
<i>Dientamoeba fragilis</i> 8-well strips	A mix of enzymes, primers-probes, buffer, dNTPs, stabilizers and Internal control in stabilized format	6/12 x 8-well strip
Rehydration Buffer	Solution to reconstitute the stabilized product	1 vial x 1,8 mL
<i>Dientamoeba fragilis</i> Positive Control	Non-infectious synthetic lyophilized cDNA	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

Kit References

Reference	Description
VS-DIE106L	Viasure <i>Dientamoeba fragilis</i> Real Time PCR Detection Kit 6 x 8-well strips, low profile
VS-DIE106H	Viasure <i>Dientamoeba fragilis</i> Real Time PCR Detection Kit 6 x 8-well strips, high profile
VS-DIE112L	Viasure <i>Dientamoeba fragilis</i> Real Time PCR Detection Kit 12 x 8-well strips, low profile
VS-DIE112H	Viasure <i>Dientamoeba fragilis</i> Real Time PCR Detection Kit 12 x 8-well strips, high profile
VS-DIE113L	Viasure <i>Dientamoeba fragilis</i> Real Time PCR Detection Kit 96-well plate, low profile
VS-DIE113H	Viasure <i>Dientamoeba fragilis</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

Add 15 μ l of rehydration buffer into each well

STEP 2

Add 5 μ l of DNA sample / positive control / negative control

STEP 3

Load the strips into the thermocycler and run the specified protocol

STEP 4

Interpretate results