

VIASURE MULTIPLEX

Cryptosporidium, Giardia & E. histolytica Real Time PCR Detection Kit

Pathogen and product description

Enteric protozoa continue to be the most commonly encountered parasitic diseases affecting millions of people each and causing significant morbidity and mortality worldwide. Among them, *Cryptosporidium* spp., *Entamoeba histolytica* and *Giardia lamblia* are the major etiological agents.

Cryptosporidium can be acquired through person-to-person, contact with companion and farm animals, ingestion of contaminated food, drinking water and recreational water. *Cryptosporidium* can be present without symptoms or cause diarrhea and abdominal discomfort with weight loss and malabsorption. *Giardia lamblia* infection occurs by the faecal-oral route transmission, either through direct contact or by ingestion of contaminated food or water. Diarrhoea is the major symptom of the disease but the clinical manifestations vary; from non-symptomatic infections to severe diarrhea, abdominal cramps, bloating and flatulence

often accompanied by nausea and weight loss. *Entamoeba histolytica* disease is spread primarily by food or water contaminated with cysts but may also be transmitted from person to person by faecal-oral route. Clinical features of amoebiasis range from asymptomatic colonization (90% of the cases) to amoebic dysentery (stomach pain, nausea or vomiting and severe diarrhea with bloody and slimy stools, fever) and invasive extraintestinal disease, most commonly in the form of liver abscesses.

VIASURE *Cryptosporidium, Giardia & E. histolytica* Real Time PCR Detection Kit is designed for the diagnosis of the *Cryptosporidium*, *Giardia lamblia* and/or *Entamoeba histolytica* in human stool samples. After DNA isolation, the identification is performed by the amplification of a conserved region of the 18S rRNA gene for *Cryptosporidium*, *Giardia lamblia* and *Entamoeba histolytica* respectively, using specific primers and a fluorescent-labelled 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



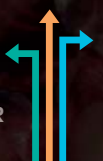
High sensibility, specificity and reproducibility



Validated according to ISO 13485 and CE marked



THE REAL ONE STEP qPCR



Analytical sensitivity

VIASURE *Cryptosporidium, Giardia & E. histolytica* Real Time PCR Detection Kit has a detection limit of ≥ 50 DNA copies per reaction (figures 1, 2 and 3).

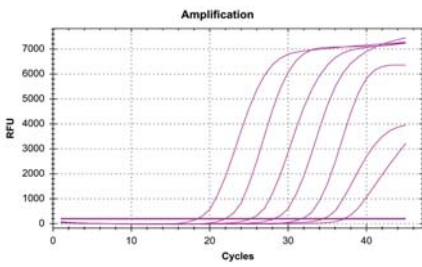


Figure 1. Dilution series of *Cryptosporidium* (10^7 – 10^2 copies/rxn) template run on the Bio-Rad CFX96 Touch™ Real-Time PCR Detection System (Cy5 channel).

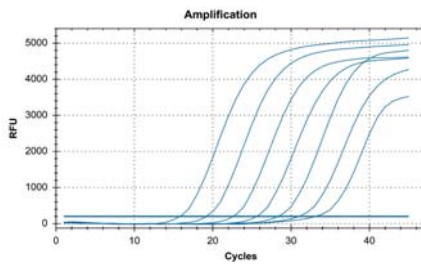


Figure 2. Dilution series of *Giardia lamblia* (10^7 – 10^1 copies/rxn) template run on the Bio-Rad CFX96 Touch™ Real-Time PCR Detection System (FAM channel).

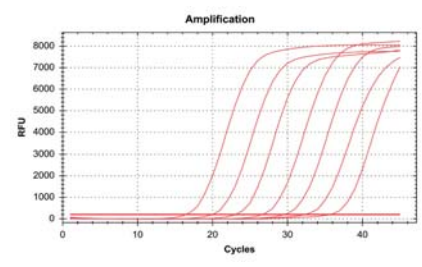
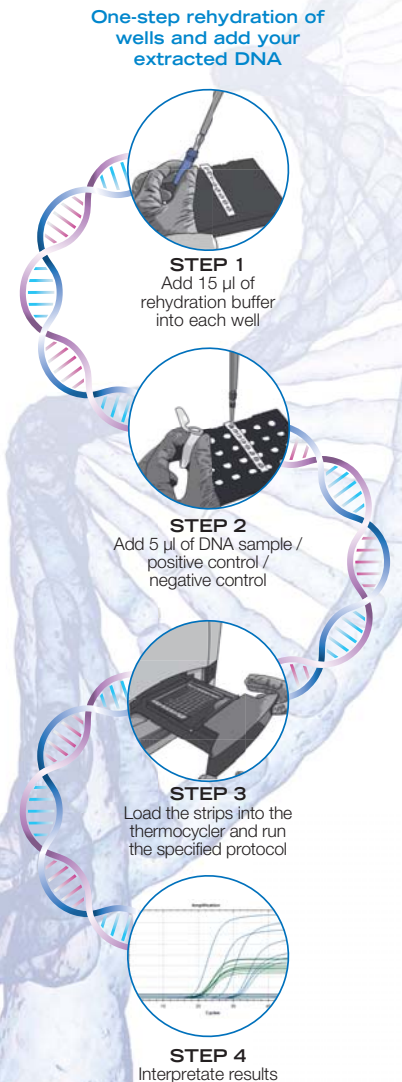


Figure 3. Dilution series of *E. histolytica* (10^7 – 10^1 copies/rxn) template run on the Bio-Rad CFX96 Touch™ Real-Time PCR Detection System (ROX channel).

Components

Reagent/Material	Description	Quantity
<i>Cryptosporidium, Giardia & E. histolytica</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>Cryptosporidium, Giardia & E. histolytica</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>Cryptosporidium, Giardia & E. histolytica</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
Shell Frame Grid	Shell Frame Grid	1 or 2

Work Flow



Kit References

Reference	Description
VS-KGE106L	VIASURE <i>Cryptosporidium, Giardia & E. histolytica</i> Real Time PCR Detection Kit 6 x 8-well strips, low profile
VS-KGE106H	VIASURE <i>Cryptosporidium, Giardia & E. histolytica</i> Real Time PCR Detection Kit 6 x 8-well strips, high profile
VS-KGE112L	VIASURE <i>Cryptosporidium, Giardia & E. histolytica</i> Real Time PCR Detection Kit 12 x 8-well strips, low profile
VS-KGE112H	VIASURE <i>Cryptosporidium, Giardia & E. histolytica</i> Real Time PCR Detection Kit 12 x 8-well strips, high profile
VS-KGE113L	VIASURE <i>Cryptosporidium, Giardia & E. histolytica</i> Real Time PCR Detection Kit 96-well plate, low profile
VS-KGE113H	VIASURE <i>Cryptosporidium, Giardia & E. histolytica</i> Real Time PCR Detection Kit 96-well plate, high profile



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