

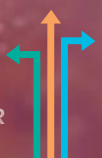
VIASURE

Helicobacter pylori Real Time PCR Detection Kit

Pathogen and product description

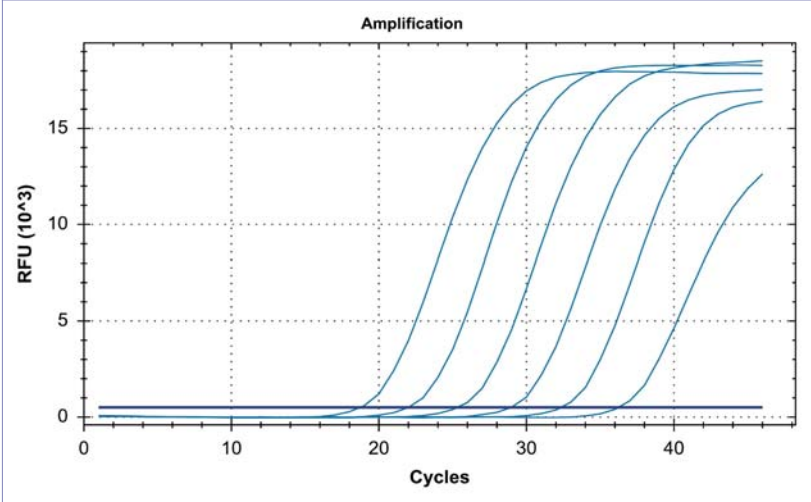
H*elicobacter pylori* is a gram-negative microaerophilic spiral-shaped bacterium, which is able to colonize the mucus layer of the human stomach and the upper part of small intestine (duodenum). More than half of the world's population is estimated to be infected with *H. pylori*, but the most individuals are asymptomatic. *H. pylori* is involved in the pathogenesis of atrophic gastritis, gastroduodenal ulcer, gastric cancer and gastric mucosa-associated lymphoid tissue (MALT) lymphoma.

VIASURE *Helicobacter pylori* Real Time PCR Detection Kit is designed for the detection of *Helicobacter pylori* in human stool samples. After DNA isolation, the identification of *Helicobacter pylori* is performed by the use of target specific primers and a fluorescent-labeled probe that hybridizes to a conserved region with the *ureB* gene.



Analytical sensitivity

VIASURE *Helicobacter pylori* Real Time PCR Detection Kit has a detection limit of ≥ 100 DNA copies per reaction



Dilution series of *Helicobacter pylori* (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>Helicobacter pylori</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>Helicobacter pylori</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>Helicobacter pylori</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-PYR106L | Viasure <i>Helicobacter pylori</i> Real Time PCR Detection Kit 6 x 8-well strips, low profile |
| VS-PYR106H | Viasure <i>Helicobacter pylori</i> Real Time PCR Detection Kit 6 x 8-well strips, high profile |
| VS-PYR112L | Viasure <i>Helicobacter pylori</i> Real Time PCR Detection Kit 12 x 8-well strips, low profile |
| VS-PYR112H | Viasure <i>Helicobacter pylori</i> Real Time PCR Detection Kit 12 x 8-well strips, high profile |
| VS-PYR113L | Viasure <i>Helicobacter pylori</i> Real Time PCR Detection Kit 96-well plate, low profile |
| VS-PYR113H | Viasure <i>Helicobacter pylori</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



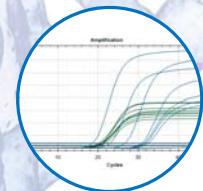
STEP 2
Add 15 μ l of rehydration buffer into each well



STEP 3
Add 5 μ 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