

# Clarithromycin, Quinolone-Resistant and *Helicobacter Pylori* Nucleic Acid Amplification Test Kit

## Fluorescent Probe-Based Real-Time PCR Assay

### Why do we test *Helicobacter Pylori*?

About 50% of people in the world have a history of *Helicobacter Pylori* infection; The Maastricht V/Florence Consensus Report pointed out “*H. pylori* infection is accepted as the major aetiological factor for gastric cancer, and *H. pylori* eradication reduces the risk of gastric cancer development.”

### Why is it important to detect *Helicobacter Pylori* antibiotic resistance?

Due to the extensive use of antibiotics, *H. pylori* resistance strains are widespread; The Maastricht V/Florence Consensus Report recommended performing clarithromycin susceptibility testing by the molecular test directly.

### Test Principle

This kit uses polymerase chain reaction (PCR) based on TaqMan fluorescent probe technology to identify *H. pylori* and antibiotic-resistant mutations.



## Clinical significance

- **Select** effective antibiotics and treatment strategies to eradicate *H.pylori*.
- **Reduce** the cost of diagnosis and treatment of *H.pylori* infection.
- **Avoid** dysbiosis due to multiple antibiotics and prolonged treatment duration.
- **Prevent** future antibiotic resistance due to the failure of first line treatment.

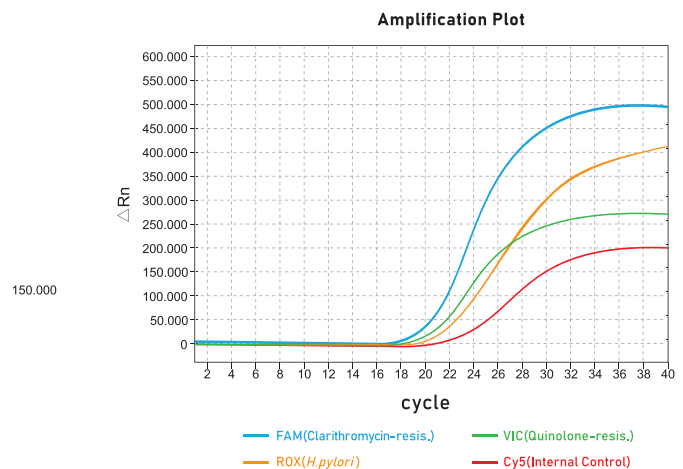
## Comparison of eradication rate with susceptible strains and resistant strains after 14 days of treatment.

Treatment protocol	Susceptible strains	CAM and/or LVX Resistant strains
Standard triple therapy Levofloxacin triple therapy Bismuth quadruple therapy	Eradication rate > 95%	Eradication rate < 50%

## Recommended Thermal Cyclers

- Applied Biosystems™ 7500 Real-Time PCR System
- Stratagene MX 3000P Real-Time PCR System
- BioRad CFX96 Real-Time PCR System
- Other Real-Time Thermal Cyclers which could detect FAM, VIC/HEX, ROX and CY5 simultaneously

## Sample Results



## Ordering Information

Cat No.	Product Discription	Format	Specimen	Shelf Life	Kit Size	Certification
B052T010B0C2	Clarithromycin, Quinolone-Resistant and <i>Helicobacter Pylori</i> Nucleic Acid Amplification Test Kit	Liquid	Gastric biopsy	12 Months	10 Tests/Box	CE NMPA
B052T050B0C2					50 Tests/Box	
B05201T2048		Lyophilized	Feces		48 Tests/Box	CE
B05201T2096					96 Tests/Box	
B055T010B0C2	Furazolidone, Tetracycline and Amoxicillin-Resistant <i>Helicobacter Pylori</i> Nucleic Acid Amplification Test Kit	Liquid	Gastric biopsy		10 Tests/Box	Non-CE RUO
B055T025B0C2					25 Tests/Box	
B055T050B0C2				50 Tests/Box		

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