

WB Detection kit for Helicobacter pylori by end-point PCR

OUR CERTIFICATIONS

Our certifications

- ✓ ISO 13486:2016 certified
- ✓ ISO 9001: 2015 certified
- ✓ DPIIT (Govt. of India) certified
- ✓ Institutional Biosafety Committee (DBT)
- ✓ MSME Registered
- ✓ Trademark Registered with Trade Mark, Registry, Govt. of India

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GRANTS/AWARDS

- ✓ Biotechnology Ignition Grant Award-2013
- ✓ Grand Challenge-TB Control - Bill and Melinda Gates Foundation | USAID | BIRAC, Govt. of India Phase-1 Grant -2015;
- ✓ Grand Challenge-TB Control - Bill and Melinda Gates Foundation | USAID | BIRAC, Govt. of India Phase 2 Grant-2017
- ✓ Grand Challenge Explorations- Bill and Melinda Gates Foundation | USAID | BIRAC, Govt. of India Grant-2017
- ✓ DBS-NUS Social Venture Challenge Asia 2017 Finalist.
- ✓ BIRAC (Dept. of Biotechnology) Pre- Accelerator MedTech Challenge Grant-2021
- ✓ Fastest Growing Indian Company Award (2019) – International Achievers Conference, Bangkok
- ✓ Small Business Innovation Research Initiative (SBIRI) (2013) – Dept. of Science and Tech., Govt. of India.

INTRODUCTION

- The genus Helicobacter belongs to the family Helicobacteraceae of the order Campylobacterales. Helicobacter pylori (H. 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 the small intestine (duodenum).
- H. pylori are involved in the pathogenesis of atrophic gastritis, gastroduodenal ulcer, gastric cancer and gastric mucosa-associated lymphoid tissue (MALT) lymphoma.
- Urease is an important factor for the maintenance and virulence of the bacterium in the gastric mucosa. It is composed of two structural subunits encoded by genes, ureA and ureB, which have been frequently employed as target genes for the specific detection of Helicobacter pylori.
- WobbleBase Helicobacter pylori Detection kit are design to detect Helicobacter pylori in gastric tissue ,as it uses the target specific primer that hybridize conserve region of ureA gene

KEY FEATURES

- Provides tight precision at medically relevant decision points`.
- Confidence in your results with primers targeting highly conserved regions.
- Positive and negative control to confirm the integrity of the kit reagents
- High sensitivity & accuracy
- Available in different pack sizes
- Reliable and cost effective.
- Easy work flow & compatible with various PCR instruments.

SPECIFICATIONS

Technology	Conventional nested PCR amplification and gel electrophoresis technique
Type of Analysis	Qualitative
Target Sequence	Specific conservative DNA sequence of ureA gene
Analytical Specificity	100% homology with a broad range of clinically relevant reference Human H.pylori
Analytical Sensitivity (LoD with probability 95 %)	5 copies per microliter using Wobble Base manual extraction DNA Nucleic Acid Kit
Diagnostic Specificity	100.00% (CI95%: 92.89 % – 100.00 %)

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✓ TATA Health Fund (Phase 1 - Biosafety) – 2024

**Your thinking
partner in
science**

Diagnostic Sensitivity	100.00% (CI95%: 92.89 % – 100.00 %)
Linear Range	1.00E+09 to 1.00E+00 copies/μl
Dynamic Range	10 ⁶ copies to less than 100 copies of the target in the PCR reaction
Reporting Units	H.pylori DNA detected, not detected or inconclusive
Controls	Inhibition and extraction control, negative control, positive control
Validated specimen	Biopsies, Mucosal biopsies, and Fecal samples
Storage	-20 ± 5 °C
Instrument	Compatible with a wide range of conventional PCR device

CATALOG NUMBER	PRODUCT INFORMATION	Content
HELICOG/WBB/50	WB Detection kit for <i>Helicobacter pylori</i> by end-point PCR kit	50 reactions
HELICOG/WBB/100	WB Detection kit for <i>Helicobacter pylori</i> by end-point PCR kit	100 reactions