

**Foresight**<sup>®</sup>

**H. pylori IgG EIA Test Kit**

Package Insert

REF

I231-1241

English

An enzyme immunoassay (EIA) for the qualitative and quantitative detection of IgG antibodies to *Helicobacter pylori* (*H. pylori*) in human serum or plasma.

For professional *in vitro* diagnostic use only.

**INTENDED USE**

The *H. pylori* IgG EIA Test Kit is an enzyme immunoassay for the qualitative and quantitative detection of IgG antibodies to *H. pylori* in human serum or plasma. It is intended as an aid in the diagnosis of possible *H. pylori* infection.

**SUMMARY**

*H. pylori* is a small, spiral-shaped bacterium that lives in the surface of the stomach and duodenum. It is associated in the etiology of a variety of gastrointestinal diseases including duodenal and gastric ulcer, non-ulcer dyspepsia and active and chronic gastritis.<sup>1,2</sup> *H. pylori* infection is present in over 90% of duodenal ulcers, 80% of gastric ulcers, and 70% of gastritis. Recently, it has been classified as a Class I carcinogen by the WHO. Although the transmission route for *H. pylori* is not yet known, it is believed to be transmitted by oral-oral or fecal-oral route. Both invasive and non-invasive methods are used to diagnose *H. pylori* infection in patients with symptoms of gastrointestinal disease. Specimen-dependent and costly invasive diagnostic methods include gastric or duodenal biopsy followed by urease testing (presumptive), culture, and/or histologic staining.<sup>3</sup> Non-invasive techniques include the urea breath test, which requires expensive laboratory equipment and moderate radiation exposure, and serological methods.<sup>4,5</sup> Individuals infected with *H. pylori* develop serum antibodies which correlate strongly with histologically confirmed *H. pylori* infection.<sup>6,7,8</sup> Early in the course of active infection, IgM antibody levels may be detectable. Levels of IgG and IgA antibody rise with the infection and remain constantly high until infection is eliminated. Therefore, the efficacy of antimicrobial therapy can be monitored by detecting changes in the antibody levels.

The *H. pylori* IgG EIA Test Kit is an immunoassay for the qualitative and quantitative detection of the presence of IgG antibodies to *H. pylori* in serum or plasma specimen. The test utilizes recombinant *H. pylori* antigens to selectively detect IgG antibodies to *H. pylori* in serum or plasma.

**PRINCIPLE**

The *H. pylori* IgG EIA Test Kit is a solid phase enzyme immunoassay based on indirect principle for the qualitative and quantitative detection of IgG antibodies to *H. pylori* in human serum or plasma. The microwell plate is coated with *H. pylori* recombinant antigens. During testing, the specimen diluent and the specimens are added to the antigen coated microwell plate and then incubated. If the specimens contain IgG antibodies to *H. pylori*, it will bind to the antigens coated on the microwell plate to form immobilized antigen-*H. pylori* IgG antibody complexes. If the specimens do not contain IgG antibodies to *H. pylori*, the complexes will not be formed. After initial incubation, the microwell plate is washed to remove unbound materials. The enzyme-conjugated anti-human IgG antibodies are added to the microwell plate and then incubated. The enzyme-conjugated anti-human IgG antibodies will bind to the immobilized antigen-*H. pylori* IgG antibody complexes present. After the second incubation, the microwell plate is washed to remove unbound materials. Substrate A and substrate B are added and then incubated to produce a blue color indicating the amount of *H. pylori* IgG antibodies present in the specimens. Sulfuric acid solution is added to the microwell plate to stop the reaction producing a color change from blue to yellow. The color intensity, which corresponds to the amount of *H. pylori* IgG antibodies present in the specimens, is measured with a microplate reader at 450/630-700 nm or 450 nm.

**PRECAUTIONS**

- For professional *in vitro* diagnostic use only. Do not use after expiration date.
- Do not mix reagents from other kits with different lot numbers.
- Avoid cross contamination between reagents to ensure valid test results.
- Follow the wash procedure to ensure optimum assay performance.
- Use Plate Sealer to cover microwell plate during incubation to minimize evaporation.
- Use a new pipet tip for each specimen assayed.
- Ensure that the bottom of the plate is clean and dry and that no bubbles are present on the surface of the liquid before reading the plate. Do not allow wells to dry out during the assay procedure.
- Do not touch the bottom of the wells with pipette tips. Do not touch the bottom of the microwell plate with fingertips.
- Do not allow sodium hypochlorite fumes from chlorine bleach or other sources to contact the microwell plate during the assay as the color reaction may be inhibited.
- All equipment should be used with care, calibrated regularly and maintained following the equipment manufacturer's instructions.

**HEALTH AND SAFETY INFORMATION**

- Some components of this kit contain human blood derivatives. No known test method can offer complete assurance that products derived from human blood will not transmit infectious agents. Therefore, all blood derivatives should be considered potentially infectious. It is recommended that these reagents and human specimens be handled using established good laboratory working practices.
- Wear disposable gloves and other protective clothing such as laboratory coats and eye protection while handling kit reagents and specimens. Wash hands thoroughly when finished.

- ProClin™ 300 is included as a preservative in the Conjugate, Concentrated Wash Buffer, Specimen Diluent, Substrate and Calibrators. Avoid any contact with skin or eyes.
- Do not eat, drink or smoke in the area where the specimens or kits are handled. Do not pipette by mouth.
- Avoid any contact of the Substrate and Stop Solution with skin or mucosa. The Stop Solution contains 0.5M sulfuric acid which is a strong acid. If spills occur, wipe immediately with large amounts of water. If the acid contacts the skin or eyes, flush with large amounts of water and seek medical attention.
- Non-disposable apparatus should be sterilized after use. The preferred method is to autoclave for one hour at 121°C. Disposables should be autoclaved or incinerated. Do not autoclave materials containing sodium hypochlorite.
- Handle and dispose all specimens and materials used to perform the test as if they contained infectious agents. Observe established precautions against microbiological hazards throughout all the procedures and follow the standard procedures for proper disposal of specimens.
- Observe Good Laboratory Practices when handling chemicals and potentially infectious material. Discard all contaminated material, specimens and reagents of human origin after proper decontamination and by following local, state and federal regulations.
- Neutralized acids and other liquids should be decontaminated by adding sufficient volume of sodium hypochlorite to obtain a final concentration of at least 1.0%. A 30 minute exposure to a 1.0% sodium hypochlorite may be necessary to ensure effective decontamination.

**STORAGE AND STABILITY**

- Unopened test kits should be stored at 2-8°C upon receipt. All unopened reagents are stable through the expiration date printed on the box if stored between 2-8°C. Once opened, all reagents are stable for up to 3 months after the first opening date if stored between 2-8°C. Return reagents to 2-8°C immediately after use.
- Allow the sealed pouch to reach room temperature before opening the pouch and remove the required number of strips to prevent condensation of the microwell plate. The remaining unused strips should be stored in the original resealable pouch with desiccant supplied at 2-8°C and can be used within 3 months of the opening date. Return the remaining unused strips and supplied desiccant to the original resealable pouch, firmly press the seal closure to seal the pouch completely and immediately store at 2-8°C.
- Concentrated Wash Buffer may be stored at room temperature to avoid crystallization. If crystals are present, warm up the solution at 37°C. Working Wash Buffer is stable for 2 weeks at room temperature.
- Do not expose reagents especially the Substrate to strong light or hypochlorite fumes during storage or incubation steps.
- Do not store Stop Solution in a shallow dish or return it to the original bottle after use.

**SPECIMEN COLLECTION AND PREPARATION**

- The *H. pylori* IgG EIA Test Kit can be performed using only human serum or plasma collected from venipuncture whole blood.
- EDTA, sodium heparin, and ACD collection tubes may be used to collect venipuncture whole blood and plasma specimens. The preservative sodium azide inactivates horseradish peroxide and may lead to erroneous results.
- Separate serum or plasma from blood as soon as possible to avoid hemolysis. Grossly hemolytic, lipidic or turbid samples should not be used. Specimen with extensive particulate should be clarified by centrifugation prior to use. Do not use specimens with fibrin particles or contaminated with microbial growth.
- Serum and plasma specimens may be stored at 2-8°C for up to 7 days prior to assaying. For long term storage, specimens should be kept frozen below -20°C.
- Bring specimens to room temperature prior to testing. Frozen specimens must be completely thawed and mixed well prior to testing. Specimens should not be frozen and thawed repeatedly.
- If specimens are to be shipped, they should be packed in compliance with local regulations covering the transportation of etiologic agents.

REAGENTS AND COMPONENTS				
Materials Provided				
No.	Reagent	Component Description	Quantity	
			96 wells/kit	480 wells/kit
	<i>H. pylori</i> IgG Microwell Plate	Microwell plate coated with recombinant <i>H. pylori</i> antigens	1 plate (96 wells/plate)	5 plates (96 wells/plate)
1	<i>H. pylori</i> IgG Conjugate	Anti-human IgG antibodies bound to peroxidase; Preservative: 0.1% ProClin™ 300	1 x 12 mL	5 x 12 mL
2	Concentrated Wash Buffer (25x)	Tris-HCl buffer containing 0.1% Tween 20; Preservative: 0.1% ProClin™ 300	1 x 50 mL	5 x 50 mL
2A	Specimen Diluent	Tris buffer; Preservative: 0.1% ProClin™ 300	1 x 12 mL	5 x 12 mL
3	Substrate A	Citrate-phosphate buffer containing hydrogen peroxide; Preservative: 0.1% ProClin™ 300	1 x 8 mL	5 x 8 mL

4	Substrate B	Buffer containing tetramethylbenzidine (TMB); Preservative: 0.1% ProClin™ 300	1 x 8 mL	5 x 8 mL
5	Stop Solution	0.5M Sulfuric acid	1 x 8 mL	5 x 8 mL
6	<i>H. pylori</i> IgG Calibrator 1	Buffer non-reactive for <i>H. pylori</i> IgG antibodies; Preservative: 0.1% ProClin™ 300	1 x 1 mL	5 x 1 mL
7	<i>H. pylori</i> IgG Calibrator 2	Buffer containing 5 AU/mL <i>H. pylori</i> IgG antibodies; Preservative: 0.1% ProClin™ 300	1 x 1 mL	5 x 1 mL
8	<i>H. pylori</i> IgG Calibrator 3	Buffer containing 10 AU/mL <i>H. pylori</i> IgG antibodies; Preservative: 0.1% ProClin™ 300	1 x 1 mL	5 x 1 mL
9	<i>H. pylori</i> IgG Calibrator 4	Buffer containing 20 AU/mL <i>H. pylori</i> IgG antibodies; Preservative: 0.1% ProClin™ 300	1 x 1 mL	5 x 1 mL
10	<i>H. pylori</i> IgG Calibrator 5	Buffer containing 50 AU/mL <i>H. pylori</i> IgG antibodies; Preservative: 0.1% ProClin™ 300	1 x 1 mL	5 x 1 mL
11	<i>H. pylori</i> IgG Calibrator 6	Buffer containing 100 AU/mL <i>H. pylori</i> IgG antibodies; Preservative: 0.1% ProClin™ 300	1 x 1 mL	5 x 1 mL
Plate Sealers			3	15
Package Insert			1	1

**Materials Required But Not Provided**

- Freshly distilled or deionized water
- Sodium hypochlorite solution for decontamination
- Absorbent paper or paper towel
- Water bath or incubator capable of maintaining 37°C ± 2°C
- Calibrated automatic or manual microwell plate washer capable of aspirating and dispensing 350 µL/well
- Disposable gloves
- Automated processor (optional)
- Calibrated micropipettes with disposable tips capable of dispensing 5, 50 and 100 µL
- Graduated cylinders for wash buffer dilution
- Vortex mixer for specimen mixing (optional)
- Timer
- Disposable reagent reservoirs
- Calibrated microplate reader capable of reading at 450 nm with a 630-700 nm reference filter, or reading at 450 nm without a reference filter

**DIRECTIONS FOR USE**

Allow reagents and specimens to reach room temperature (15-30°C) prior to testing. The procedure must be strictly followed. Assay must proceed to completion within time limits. Arrange the calibrators so that well A1 is the Blank well. From well A1, arrange the calibrators in a horizontal or vertical configuration. The procedure below assigns specific wells arranged in a vertical configuration. Configuration may depend upon software.

Step	Detailed Procedure	Simplified Procedure
	<ul style="list-style-type: none"><li>Prepare Working Wash Buffer by diluting the Concentrated Wash Buffer 1:25. Pour the contents of the bottle containing the concentrated wash buffer in a graduated cylinder and fill it with freshly distilled or deionized water to 1250 mL for 96 wells/plate testing. The Working Wash Buffer is stable for 2 weeks at 15-30°C.</li><li><b>Note:</b> If crystals are present in the Concentrated Wash Buffer, warm it up at 37°C until all crystals dissolve.</li><li>Remove unused strips from the microwell plate, and store in the original resealable pouch at 2-8°C.</li></ul>	<ul style="list-style-type: none"><li>Prepare Working Wash Buffer by diluting the Concentrated Wash Buffer 1:25</li><li>Remove and store unused strips at 2-8°C</li></ul>
0	• Leave A1 as Blank well.	• Leave A1 as Blank well
1	<ul style="list-style-type: none"><li>Add 100 µL of Calibrator 1 in wells B1 and C1. (Yellow Reagent)</li><li>Add 100 µL of Calibrator 2 in wells D1 and E1. (Blue Reagent)</li><li>Add 100 µL of Calibrator 3 in wells F1 and G1. (Blue Reagent)</li><li>Add 100 µL of Calibrator 4 in wells H1 and A2. (Blue Reagent)</li><li>Add 100 µL of Calibrator 5 in wells B2 and C2. (Blue Reagent)</li><li>Add 100 µL of Calibrator 6 in wells D2 and E2. (Blue Reagent)</li></ul>	<ul style="list-style-type: none"><li>B1 and C1: Add 100 µL Calibrator 1</li><li>D1 and E1: Add 100 µL Calibrator 2</li><li>F1 and G1: Add 100 µL Calibrator 3</li><li>H1 and A2: Add 100 µL Calibrator 4</li><li>B2 and C2: Add 100 µL Calibrator 5</li><li>D2 and E2: Add 100 µL Calibrator 6</li></ul>
2	• Add 100 µL of Specimen Diluent to assigned wells starting at F2. (Green Reagent)	• Starting F2: Add 100 µL Specimen Dilluent

	<ul style="list-style-type: none"><li>• Add 5 µL of specimen to assigned wells starting at F2 Then a color change from green to blue will occur to verify that the specimen has been added.</li></ul>	<ul style="list-style-type: none"><li>• Starting F2: Add 5 µL Specimen</li></ul>
3	<ul style="list-style-type: none"><li>• Mix gently by swirling the microwell plate on a flat bench for 30 seconds.</li><li>• Cover the microwell plate with the Plate Sealer and incubate at 37°C for 30 minutes ± 2 minutes.</li></ul>	<ul style="list-style-type: none"><li>• Mix gently</li><li>• Cover the microwell plate with the Plate Sealer and incubate at 37°C for 30 min</li></ul>
4	<ul style="list-style-type: none"><li>• Remove the Plate Sealer.</li><li>• Wash each well 5 times with 350 µL of Working Wash Buffer per well, then remove the liquid.</li><li>• Turn the microwell plate upside down on absorbent tissue for a few seconds. Ensure that all wells have been completely washed and dried. Note: Improper washing may cause false positive results.</li></ul>	<ul style="list-style-type: none"><li>• Remove the Plate Sealer</li><li>• Wash each well 5 times with 350 µL of Working Wash Buffer</li><li>• Turn the microwell plate upside down on absorbent tissue</li></ul>
5	<ul style="list-style-type: none"><li>• Add 100 µL of Conjugate to each well except for the Blank well. (Red Reagent).</li></ul>	<ul style="list-style-type: none"><li>• Add 100 µL of Conjugate to each well except for the Blank well</li></ul>
6	<ul style="list-style-type: none"><li>• Cover the microplate plate with the Plate Sealer and incubate in a water bath or an incubator at 37°C for 30 minutes ± 2 minutes.</li></ul>	<ul style="list-style-type: none"><li>• Cover the microwell plate with the Plate Sealer and incubate at 37°C for 30 min</li></ul>
7	<ul style="list-style-type: none"><li>• Repeat Step 4.</li></ul>	<ul style="list-style-type: none"><li>• Repeat Step 4</li></ul>
8	<ul style="list-style-type: none"><li>• Add 50 µL of Substrate A to each well. (Clear Reagent).</li><li>• Add 50 µL of Substrate B to each well. (Clear Reagent). Then a blue color should develop in wells containing Positive specimens.</li></ul>	<ul style="list-style-type: none"><li>• Add 50 µL of Substrate A to each well</li><li>• Add 50 µL of Substrate B to each well</li></ul>
9	<ul style="list-style-type: none"><li>• Mix gently then cover microwell plate with Plate Sealer and incubate in a water bath or incubator at 37°C for 10 minutes ± 1 minute.</li></ul>	<ul style="list-style-type: none"><li>• Mix then cover microwell plate with Plate Sealer and incubate at 37°C for 10 min</li></ul>
10	<ul style="list-style-type: none"><li>• Remove the Plate Sealer.</li><li>• Add 50 µL of Stop Solution to each well. (Clear Reagent) Then a yellow color should develop in wells containing Positive specimens.</li></ul>	<ul style="list-style-type: none"><li>• Remove Plate Sealer</li><li>• Add 50 µL of Stop Solution to each well</li></ul>
11	<ul style="list-style-type: none"><li>• Read at 450/630-700 nm within 30 minutes. Note: Microwell plate can also be read at 450 nm, but it is strongly recommended to read it at 450/630-700 nm for better results.</li></ul>	<ul style="list-style-type: none"><li>• Read at 450/630-700 nm within 30 min</li></ul>

AUTOMATED PROCESSING

Automatic EIA microplate processors may be used to perform the assay after validating the results to ensure they are equivalent to those obtained using the manual method for the same specimens. Incubation times may vary depending on the processors used but do not program less incubation times than the procedure listed above. When automatic EIA microplate processors are used, periodic validation is recommended to ensure proper results.

VALIDATION REQUIREMENT AND QUALITY CONTROL

1. Calculate the Mean Absorbance of Calibrators 1-6 by referring to the table below.

Example of Calibrator 2 Calculation

Item	Absorbance
Calibrator 2: Well D1	0.468
Calibrator 2: Well E1	0.432
Total Absorbance of Calibrator 2	0.468 + 0.432 = 0.900
Mean Absorbance of Calibrator 2	0.900/2 = 0.450

2. Check the validation requirements below to determine if the test results are valid.

Item	Validation Requirements
Blank Well	Blank Absorbance should be < 0.050 if read at 450/630-700 nm Note: It should be < 0.100 if read at 450 nm
Calibrator 1	Mean Absorbance < 0.100 after subtraction of Blank Absorbance
Calibrator 2	Mean Absorbance > 0.150 after subtraction of Blank Absorbance
Calibrator 6	Mean Absorbance > 1.000 after subtraction of Blank Absorbance

**NOTE:** The test results are considered invalid if the above validation requirements are not met. Repeat the test or contact your local distributor.

INTERPRETATION OF RESULTS

Qualitative

Calculate the Index Value to obtain qualitative specimen results.

1. If the test is valid, obtain Cut-Off Value by subtracting the Blank Absorbance from the Mean

Absorbance of Calibrator 2. See an example of Cut-Off calculation below.

Item	Absorbance
Blank Absorbance: Well A1	0.014
Cut-Off Value: Mean Absorbance of Calibrator 2 – Blank Absorbance	0.450 – 0.014 = 0.436

2. Calculate the Index Value by dividing the Specimen Absorbance by the Cut-Off Value, then read the results by referring to the Interpretation of Results table below.

Item	Absorbance
Specimen: Well F2	0.810
Cut-Off Value	0.436
Index Value: Specimen/Cut-Off Value	0.810/0.436 = 1.858

Quantitative

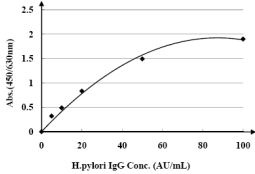
Draw the calibration curve and obtain quantitative specimen results.

1. Subtract the Blank Absorbance from the Mean Absorbance of each Calibrator, then plot them on the Y-axis against their concentration in AU/mL on the X-axis on a graph paper and draw the calibration curve. Draw the best fitted line through the data points to obtain a standard curve. Refer to an example of the calibration curve at right.

**NOTE:** Do not use the calibration curve at right to make any calculation. A calibration curve must be performed for each run.

2. Obtain quantitative specimen results from their absorbance by using the calibration curve.

**NOTE:** Specimens that have absorbance above Calibrator 6 should be pre-diluted using Specimen Diluent and retested. The concentration must be multiplied by the dilution factor. Automated reading and calculation may be performed on suitable computer programs.



Interpretation of Results - Qualitative and Quantitative

Results	Qualitative	Quantitative
	Index Value	Concentration
Negative	< 0.9	< 4.5 AU/mL
Positive	> 1.1	> 5.5 AU/mL
Equivocal*	≥ 0.9 and ≤ 1.1	4.5 – 5.5 AU/mL

**\*NOTE:** For Equivocal results, the specimen should be retested. Specimens that are repeatedly Equivocal after retest should be confirmed using an alternate method. If the results remain Equivocal, collect a new specimen in two weeks. If the new specimen is Positive, the specimen is presumed to be Positive.

LIMITATIONS

1. The *H. pylori* IgG EIA Test Kit is used for the detection of IgG antibodies to *H. pylori* in human serum or plasma. Diagnosis of an infectious disease should not be established based on a single test result. Further testing, including confirmatory testing, should be performed before a specimen is considered positive. A negative test result does not exclude the possibility of exposure. Specimens containing precipitate may give inconsistent test results.
2. As with all diagnostic tests, all results must be interpreted together with other clinical information available to the physician.
3. As with other sensitive immunoassays, there is the possibility that the positive result cannot be repeated due to inadequate washing from the initial test. The results may be affected due to procedural or instrument error.

PERFORMANCE CHARACTERISTICS

Sensitivity and Specificity

The *H. pylori* IgG EIA Test Kit has been compared to a leading commercial *H. pylori* IgG EIA test using clinical specimens. The results show that the clinical sensitivity of the *H. pylori* IgG EIA Test Kit is 97.9%, and the clinical specificity is >99.9%.

H. pylori IgG EIA vs. Other EIA

Method		Other EIA		Total Results
H. pylori IgG EIA	Results	Positive	Negative	
	Positive	47	0	
	Negative	1	26	
Total Results		48	26	74

Clinical Sensitivity: 97.9% (88.9 - 99.9%)\* Clinical Specificity: 100.00% (86.8 - 100.00%)\*  
Overall Agreement: 98.6% (92.7 - 100.07%)\* \*95% Confidence Interval

Reproducibility

**Intra-Assay:** Within-run precision has been determined by using 10 replicates of three specimens: a low positive, a medium positive and a high positive.

**Inter-Assay:** Between-run precision has been determined by 3 independent assays on the same three specimens: a low positive, a medium positive and a high positive. Three different lots of the *H. pylori* IgG EIA Test Kit have been tested using these specimens.

Specimen	Intra-Assay			Inter-Assay		
	Mean Absorbance/ Cut-Off	Standard Deviation	Coefficient of Variation (%)	Mean Absorbance/ Cut-Off	Standard Deviation	Coefficient of Variation (%)
1	1.420	0.057	3.996	1.386	0.070	5.080
2	1.948	0.107	5.513	2.025	0.161	7.934
3	3.098	0.238	7.669	3.148	0.290	9.199

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Index of Symbols

	Consult instructions for use		Tests per kit		Manufacturer
	For <i>in vitro</i> diagnostic use only		Use by		Authorized Representative
	Store between 2-8°C		Lot Number		Catalog #
	H.Pylori IgG		Conjugate		Substrate A
	Substrate B		Stop Solution		Specimen Diluent
	Wash Buffer (25x)		Calibrator 1		Calibrator 2
	Calibrator 3		Calibrator 4		Package Insert
	Calibrator 5		Calibrator 6		
	Microwell Plate		Plate Sealer		



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