

Care for love
Focus on health

Specialized In Manufacturing Rapid Tests

For

- Sexually Transmitted Diseases
- Gastroenteritic Diseases



LIMING BIO

diagnostics are ASSURED

Add: No.12, Huayuan Road, Nanjing, Jiangsu, China 210042

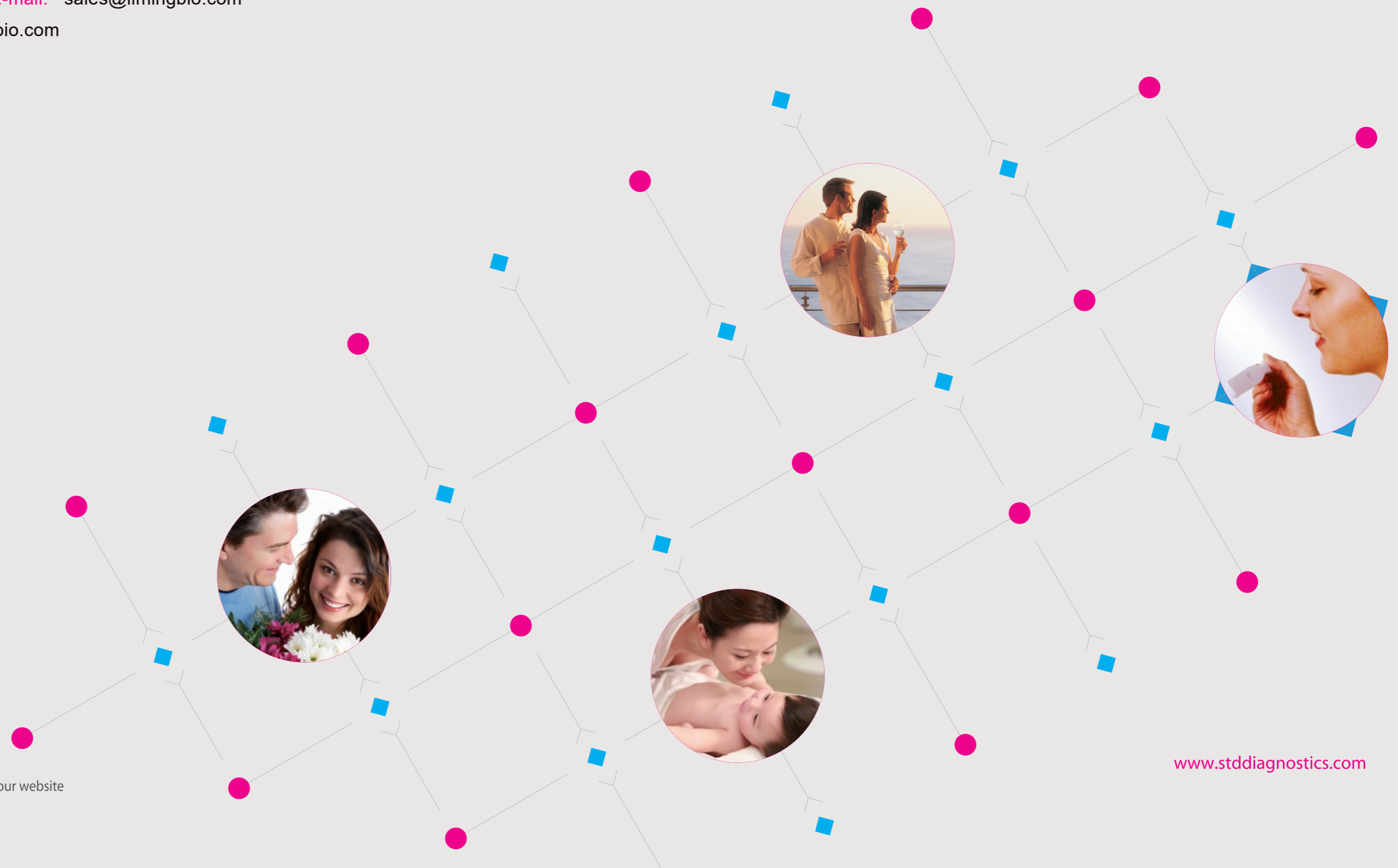
Tel: +86 25 8528 8506

Fax: +86 25 8547 6387 **E-mail:** sales@limingbio.com

Technical support: tech@limingbio.com

Web: www.limingbio.com

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The information included is subjected to that on our website

www.stddiagnostics.com



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Company Profile



Nanjing Liming Bio-Products Co., Ltd.(Liming Bio)develops, manufactures and markets a series of rapid tests for Sexually Transmitted Diseases(STDs), Gastroenteritic diseases and Fertility. Founded in June,2001, we have abundant experience in the field of diagnostics, especially for STDs.

Our technical team has begun application research on dyed latex immuno-chromatographic assay from 2002 and gained some breakthrough achievements, such as HSV 1/2 antigen rapid test, HPV antigen rapid test, Gonorrhoeae/Chlamydia combo rapid test, Trichomonas/Candida combo rapid test and so on.

Outstanding performance has been proved compared with other methods(including PCR or culture) which are time-consuming and costly.Using our rapid tests, either patient or healthcare professional can save a lot of time for waiting because it just needs 15 minutes or so.

For many years, we are dedicated to our mission that: provide rapid,accurate and cost-effective STDs diagnostic tests through ceaseless efforts on the diagnostic research and development.

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Products Catalog

Sexually Transmitted Diseases (STDs)				
500020	Neisseria Gonorrhoea	Antigen	Cervical/Urethral swab	CE NMPA
500010	Chlamydia Trachomatis	Antigen	Cervical/Urethral swab	NMPA
500050	Gonorrhoeae/chlamydia Combo	Antigen	Cervical/Urethral swab	NMPA
500040	Trichomonas Vaginalis	Antigen	Vaginal discharge	CE NMPA
500030	Candida Albicans	Antigen	Vaginal discharge	CE NMPA
500060	Trichomonas/Candida Combo	Antigen	Vaginal discharge	CE NMPA
500070	HSV 1/2	Antigen	Mucocutaneous lesions swab	CE
500090	Strep B	Antigen	Female vaginal swab	CE
500080	Bacterial Vaginosis	PH value	Vaginal discharge	CE NMPA
500140	Screening test for Cervical Pre-cancer and Cancer	Hpv16/18 Antigen	Cervical swab	CE
500130	Screening test for Genital Warts	Hpv6/11 Antigen	Mucocutaneous lesions swab	CE
Gastroenteritic Diseases				
502010	H.pylori Ab	Antibody	Whole Blood/Serum / Plasma	CE
501040	H.pylori Ag	Antigen	Feces	CE
501050	Vibrio Cholerae O1	Antigen	Feces	CE
501070	Vibrio cholerae O1/O139 Combo	Antigen	Feces	CE
501080	Salmonella	Antigen	Feces	CE
502070	Salmonella typhi	Antibody	Serum/Plasma	CE
501010	Rotavirus	Antigen	Feces	CE
501020	Adenovirus	Antigen	Feces	CE
501030	Rotavirus/Adenovirus Combo	Antigen	Feces	CE
501100	Giardia Lamblia Ag	Antigen	Feces	CE
Fertility				
500160	fFN	Fetal fibronectin	Cervicovaginal secretions	CE
500170	PROM	IGFBP-1	Vaginal discharge	CE
Others				
500150	Strep A	Antigen	Throat swab	CE
501060	FOB(cassette)	Hemoglobin	Feces	CE
502050	Procalcitonin	Procalcitonin	Plasma / Serum / Whole blood	CE
502080	Cryptococcus	Antigen	Plasma / Serum / Whole blood Cerebral spinal fluid	CE
500180	Fungal fluorescence staining solution	One step	Dandruff / Nail shaving / BAL / Tissue smear / Pathological section, etc	NMPA

For more information, please visit our website <http://www.stddiagnostics.com>

StrongStep® Gonorrhoeae/Chlamydia Antigen Combo Rapid Test

An immunochromatographic assay for qualitative presumptive detection of *Neisseria gonorrhoeae* and/or *Chlamydia trachomatis* antigens in female cervical swab and male urethral swab specimens



One test for detecting Gonorrhoeae and Chlamydia simultaneously

Background: *C.trachomatis* infection is the most common sexually transmitted disease. At least half of all STD cases are caused by *C.trachomatis*. Gonorrhea is a sexually transmitted disease caused by the bacterium *Neisseria gonorrhoeae* for which humans are the only natural host.

C.trachomatis and *N.gonorrhoeae* have very close relations and patients are often infected by both of the two pathogens. *Gonorrhoeae* can activate and motivate the infection of *Chlamydia* and experiment research shows that the existence of *Gonococcus* can improve the reproducing capacity of *C.trachomatis* by 100 times. *C.trachomatis* and *N.gonorrhoeae* genital infections can cause serious complications and costly sequelae, such as pelvic inflammatory disease and infertility.

All patients tested for Gonorrhoeae should be tested for other STDs, including Chlamydia, Syphilis and HIV.

Advantages of StrongStep® Gonorrhoeae/Chlamydia Antigen combo rapid test

- ◆ **Convenient:** One test for detecting Gonorrhoeae and Chlamydia simultaneously or separately
- ◆ **Accurate:** 97.51% sensitivity, 97.40% specificity compared with culture for Gonorrhoeae; 94.39% sensitivity; 99.55% specificity compared with another POCT Chlamydia test
- ◆ **Fast:** Only 15 minutes required
- ◆ **Easy-to-use:** No special equipment required
- ◆ **Room temperature storage**

Cat.	Product	Detection	Specimen
500020	<i>Neisseria gonorrhoeae</i>	Antigen	Cervical/urethral swab
500010	<i>Chlamydia trachomatis</i>	Antigen	Cervical/urethral swab
500050	Gonorrhoeae/Chlamydia Combo	Antigen	Cervical/urethral swab

StrongStep® Trichomonas/Candida Antigen Combo Rapid Test

An immunochromatographic assay for qualitative presumptive detection of *Trichomonas vaginalis* and/or *Candida albicans* antigens from vaginal swabs or wet mount saline solution



One time sampling and testing to get two results!

Background: *Trichomonas* infection is one of the most common, non-viral sexually transmitted disease worldwide, which is caused by a tiny single-celled parasite called *Trichomonas vaginalis*. Also, vulvovaginal candidiasis (VVC) is thought to be one of the most common causes of vaginal symptoms. About 20% of non-pregnant women aged 15 to 55 harbour *Candida albicans* in the vagina.

Vaginitis is one of the principal motives that lead women to seek out an obstetrician or gynecologist. Candidiasis and trichomoniasis are responsible for most of the cases of infectious vaginitis. Both of them need different treatment.

How can you benefit from StrongStep® Trichomonas/Candida Antigen combo rapid test

- ◆ **Fast:** Only 15 minutes required
- ◆ **Superior performance:** 93.60% sensitivity; 99.17% specificity for *Trichomonas* rapid test and 87.33% sensitivity; 99.26% specificity for *Candida albicans* rapid test compared with wet mount and culture
- ◆ **Save your time and cost:** One test for two pathogens with single swab
- ◆ **User-friendly:** Easily performed and interpreted by all health care personnel or even by patients themselves
- ◆ **Room temperature storage**

Cat.	Product	Detection	Specimen
500040	<i>Trichomonas vaginalis</i>	Antigen	Vaginal discharge
500030	<i>Candida albicans</i>	Antigen	Vaginal discharge
500060	Candida/Trichomonas Combo	Antigen	Vaginal discharge

StrongStep® HSV 1/2 Antigen Rapid Test

An immunochromatographic assay for qualitative presumptive detection of HSV 1 and 2 antigen in mucocutaneous specimens



A Breakthrough in the Virologic Diagnosis of HSV Infection

Why it's important to diagnose the HSV infection?

Genital herpes is an STD caused by HSV-1 or HSV-2. A person usually gets HSV infection during sexual contact with someone who has a genital HSV infection. Transmission may occur even if there is no visible outbreak if the infected person is shedding. HSV infections at least doubles the risk of sexual acquisition of human immunodeficiency virus (HIV) and also increases the possibility of transmission. So it is very important to diagnose the first stage of HSV infection.

What's the value of the HSV type-specific serologic tests in the diagnosis of HSV infection?

Antibodies to HSV develop during the first several weeks after infection and persist indefinitely. Thus, the type-specific serologic tests(IgM/IgG) is only recommended as a screening test for the asymptomatic HSV infection.

What's the value of virologic tests in the dignosis of HSV infection?

The virologic tests, including culture, DNA test and antigen test are laboratory-confirmed diagnosis of HSV infection. But culture and DNA test in clinical practice are currently limited, because of the requirement for experienced, trained technical staff and expensive equipment.

The StrongStep® HSV 1/2 Antigen Rapid Test is a completely new method for the detection of HSV antigen from mucocutaneous lesions swab. This novel POCT test can also differentiate other genital ulcer diseases with genital herpes rapidly, such as syphilis and chancroid, to help the early diagnosis and therapy of HSV infection.

Advantages of StrongStep® HSV 1/2 Antigen rapid test

- ◆ **Accurate:** 89.10% sensitivity, 95.90% specificity compared with PCR
- ◆ **Fast:** Only 15 minutes required
- ◆ **Easy-to-use:** No special equipment required
- ◆ **Room temperature storage**

Cat.	Product
500070	HSV 1/2 Antigen rapid test
Detection	Specimen
Antigen	Mucocutaneous lesions swab

StrongStep® Bacterial Vaginosis Rapid Test

A chemical reagent strips intended to measure the vaginal pH as an aid in the diagnosis of Bacterial Vaginosis

You only need 1 minute to diagnose Bacterial Vaginosis



Background: It's mainly believed that Bacterial Vaginosis occurs due to the imbalance of bacteria found in the vaginal flora. There are the good bacteria called Lactobacillus and bad bacteria called Anaerobes. Both these bacteria live in a perfect balance to form a healthy vaginal flora. However, when the bad bacteria, Anaerobes overpopulate the good bacteria, Lactobacillus, then bacterial vaginosis occurs. And this will lead to a change of vaginal pH value. A vaginal pH greater than 4.5 is suggestive of bacterial vaginosis. Cultures of bacteria are generally not useful in establishing the diagnosis of bacterial vaginosis. The principle of StrongStep® Bacterial vaginosis rapid test is to measure the vaginal pH value to detect the existence of BV.

Unique feature of StrongStep® Bacterial Vaginosis Rapid Test

- ◆ **Accurate:** 97.78% sensitivity, 80.12% specificity compared with clue cells
- ◆ **Fast:** Less than one minute
- ◆ **Easy-to-use:** No special equipment required
Can be used as a self-testing for patients
- ◆ **Room temperature storage**

Cat.	Product
500080	Bacterial vaginosis
Detection	Specimen
pH value	Vaginal discharge

StrongStep® Strep B Antigen Rapid Test



An immunochromatographic assay for qualitative presumptive detection of Group B Streptococcal antigen in female vaginal swab

Background: Infection with Strep B (known for Group B Streptococcus), can cause serious illness and sometimes death, especially in newborn infants, the elderly, and patients with compromised immune systems. Between 5% and 30% of all pregnant women are colonized with Strep B. Several recent studies have shown that the intrapartum treatment of Strep B-colonized women significantly reduces the incidence of Strep B-caused sepsis. Thus Strep B screening is of vital importance.

Characteristic of StrongStep® Strep B Antigen Rapid Test

- ◆ **Accurate:** 87.30% sensitivity, 97.40% specificity compared with culture
- ◆ **Fast:** Only 15 minutes required
- ◆ **Easy-to-use:** No special equipment required
- ◆ **Room temperature storage**

Cat.	Product
500090	Strep B
Detection	Specimen
Antigen	Vaginal discharge

CervScan® Screening Test for Cervical Pre-cancer and Cancer

An immunochromatographic assay for qualitative presumptive detection of HPV 16/18 antigen in female cervical swab specimens



Innovative diagnostic method for cervical pre-cancer and cancer screening

Background: HPV infection is a cause of nearly all cases of cervical cancer; however, most infections with these types do not cause disease. More than 150 types of HPV are acknowledged to exist, Of these, 15 are classified as high-risk types (16, 18, 31, 33, 35, 39, 45, 51, 52, 56, 58, 59, 68, 73, and 82), 3 as probable high-risk (26, 53, and 66), and 12 as low-risk (6, 11, 40, 42, 43, 44, 54, 61, 70, 72, 81, and CP6108). Types 16 and 18 are generally acknowledged to cause about 70% of cervical cancer cases.

The importance of POCT for cervical cancer screening

1.This process of infection to invasive cervical cancer usually takes 15–20 years, providing many opportunities for detection and treatment if the infection persists in 5% to 10% of infected women. Invasive cancer can be almost always prevented when standard prevention strategies are applied.

2.Many more women die of cervical cancer in the developing world than in wealthier countries. In the industrialized world, effective screening programmes help to identify pre-cancerous lesions at stages so they can easily be treated. Therefore, an easy-performed, non-expensive and rapid test for the screening of cervical cancer is urgent for developing countries.

Why CervScan® Screening Test yields higher accuracy in cervical cancer screening?

Most HPV infections in young females are temporary and have little long-term significance. In 90% of cases, the body’s immune system clears HPV naturally within two years. However, oncogenic functions were initiated by high level of E6 & E7 gene expression in proliferating basal cells. The E6 & E7 genes are consistently expressed in cancer cell for maintaining the neoplastic growth. CervScan® Screening Test mainly detect the E6 & E7 oncoproteins of HPV 16/18 to help the doctor to further confirm the condition by ruling out some HPV DNA-positive patients who possibly don’t have cervical cancer.

The Strong Step® Screening Test for Cervical Pre-cancer and Cancer boasts of the strength of more sensitive than traditional Pap smear testing and more specific than DNA-based methods in cervical pre-cancer and cancer screening.

Cat.	Product	Detection	Specimen
500140	Screening Test for Cervical Pre-cancer and Cancer	HPV 16/18 antigen	Cervical swab

StrongStep® Salmonella Antigen Rapid Test StrongStep® Salmonella typhi Antibody Rapid Test



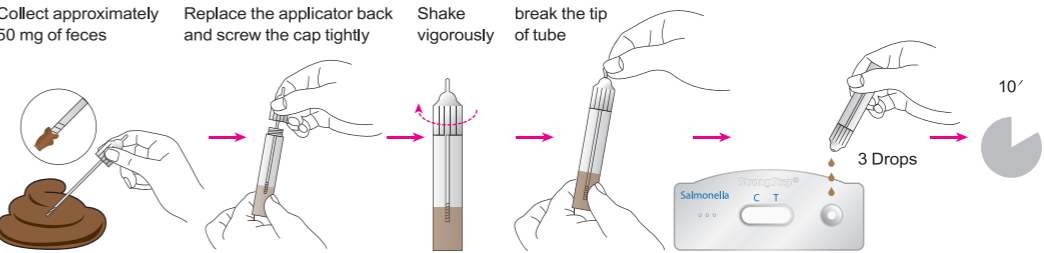
Typhoid fever is a serious illness caused by a bacteria called Salmonella typhi. Symptoms of Salmonella typhi infection may be mild to severe and can include fever, headache, loss of appetite, constipation or diarrhea, and nonproductive cough. Typhoid fever is still common in developing countries and affects about 12.5 million persons each year. Salmonella typhi bacteria are shed in the urine or stool of infected persons, including chronic carriers. Typhoid fever is spread by eating or drinking contaminated food or water or by direct or indirect contact with fecal material from infected persons.

General Information

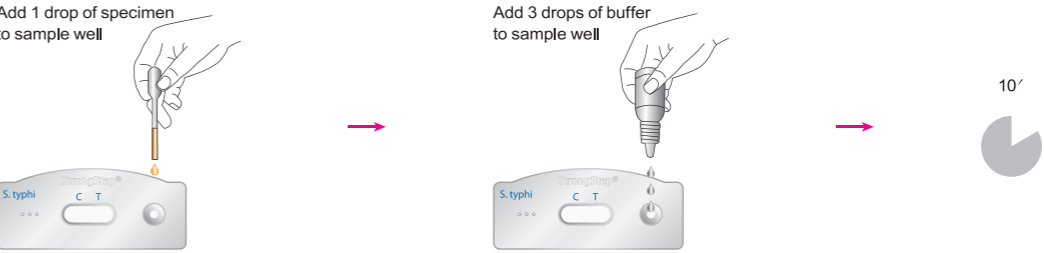
	Salmonella Antigen	Salmonella typhi Antibody
Discription	Rapid visual immunoassay for the qualitative, presumptive detection of Salmonella typhimurium, Salmonella enteritidis, Salmonella choleraesuis in human fecal specimens.	Rapid visual immunoassay for the qualitative presumptive detection of specific IgM and IgG antibodies to Salmonella typhi in human serum or plasma specimens.
Specimen	Feces	Serum or plasma
Materials provided	<ul style="list-style-type: none">● Test device● Specimens dilution tube with buffer	<ul style="list-style-type: none">● Test device● Dilution buffer● Disposable pipettes

Test Procedure

StrongStep® Salmonella Antigen Rapid Test



StrongStep® Salmonella typhi Antibody Rapid Test



Result



Ordering Information

Cat.	Product	Detection	Specimen	Pack size
501080	Salmonella	Antigen	Feces	20T/Kit
502070	Salmonella typhi	Antibody	Serum/Plasma	20T/Kit

StrongStep® Helicobacter pylori Antibody Rapid Test

StrongStep® Helicobacter pylori Antigen Rapid Test



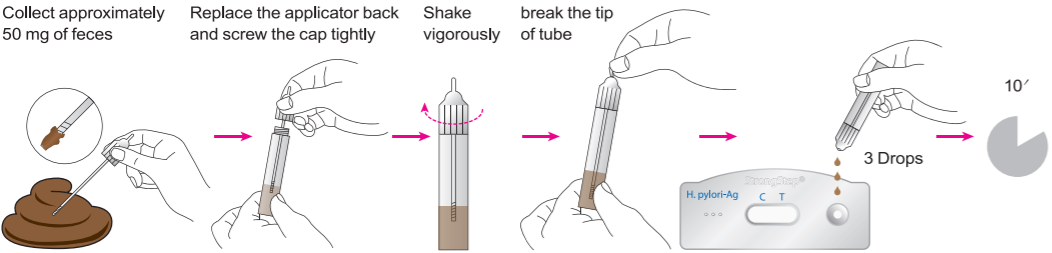
Background: Helicobacter pylori is a Gram-negative, microaerophilic bacterium that can inhabit various areas of the stomach, particularly the antrum. It causes a chronic low-level inflammation of the stomach lining and is strongly linked to the development of duodenal and gastric ulcers and stomach cancer. More than 50% of the world's population harbor H.pylori in their upper gastrointestinal tract. But approximately Over 80% of individuals infected with the bacterium are asymptomatic. So early and accurate diagnosis of the H.pylori will benefit a lot to decrease such infection.

General Information

	Helicobacter pylori Antibody	Helicobacter pylori Antigen
Discription	An immunochromatographic assay for qualitative presumptive detection of Helicobacter pylori antibody in whole blood/serum/plasma specimen	An immunochromatographic assay for qualitative presumptive detection of Helicobacter pylori antigen in feces
Specimen	Whole Blood/Serum/Plasma	Feces
Advantages	<ul style="list-style-type: none">Screening test for H. pylori infectionRapid and convenient, fingertip blood can be usedRoom temperature storage	<ul style="list-style-type: none">Confirmation test for H.pylori InfectionAccurate: 98.50% sensitivity, 98.10% specificity compared with endoscopyRapid: Results come out in 15 minutesNon-invasive and non-radioactiveRoom temperature storage

Test Procedure

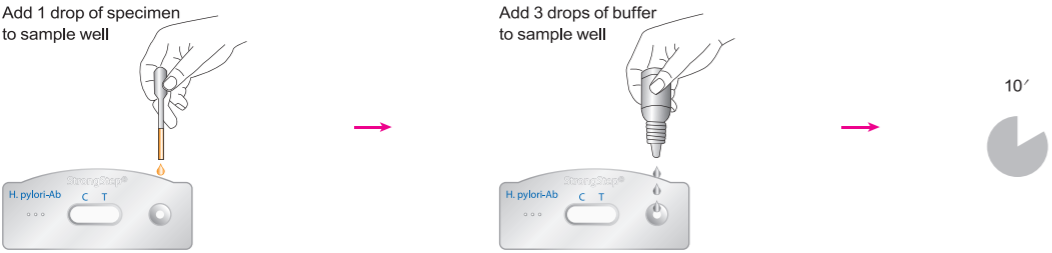
StrongStep® Helicobacter pylori Antigen Rapid Test



Result



StrongStep® Helicobacter pylori Antibody Rapid Test



Ordering Information

Cat.	Product	Detection	Specimen	Pack size
502010	Helicobacter pylori Antibody Rapid Test	Antibody	Whole Blood/Serum/Plasma	20T/Kit
501040	Helicobacter pylori Antigen Rapid Test	Antigen	Feces	20T/Kit

StrongStep® Procalcitonin Rapid Test

Indications

- Differentiation of bacterial infection and non-bacterial inflammatory response.
- Differentiation of bacterial and virus infection.
- Early diagnosis of systematic severe bacterial infection and septicopyemia.
- Diagnosis and differential diagnosis of neonatal and pediatric infection.
- Dynamic monitoring population with high risk of infection.
- Assessment of clinical progress of severe infectious diseases, therapeutic effect and prognosis.



Applications

- ◆ Bedside rapid detection for emergency room and clinical departments.
- ◆ Laboratory department in hospitals of all levels.

Product advantages

- Result in 15 minutes
- Non-instrument based
- Semiquantitative
- For the fast diagnosis of invasive bacterial infection/sepsis
- High specificity

Ordering Information

Cat.	Product	Detection	Specimen	Pack size
502050	Procalcitonin Rapid Test	Procalcitonin	Serum/Plasma	20T/Kit

