

Autobios Vaginitis Multitest can diagnose female vaginal diseases, including *Lactobacillus*, leukocyte, Bacterial vaginosis (BV), Trichomoniasis vaginitis (TV), Candida vaginitis (CV) by detecting hydrogen peroxide, leukocyte esterase, neuraminidase, proline aminopeptidase, N-acetyl- $\beta$ -D-glucosaminidase and pH.

It features high sensitivity and specificity and reduces misdiagnosis resulting from subjective judgment.



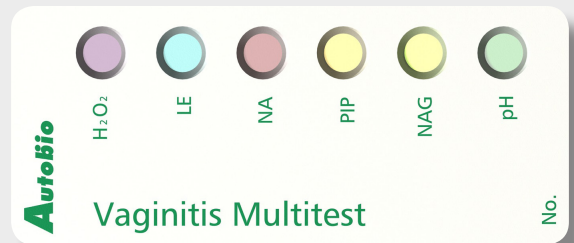
# Vaginitis Multitest

- Provides an indication on 5 gynecopathies in one simple test on 6 parameters.
- Shows high sensitivity and specificity

**Autobio**

autobio diagnostics

an autobio group company | [www.autobio-diagnostics.com](http://www.autobio-diagnostics.com)



# Vaginitis Multitest

Provides an indication on 5 gynecopathies (status of the Vaginal Flora, vaginitis, Bacterial vaginosis, Trichomoniasis vaginitis, Candida vaginitis) in one simple test on 6 parameters | Replaces the conventional microscopic examination | Shows high sensitivity and specificity

## Background

### Market

There are 46% females in the world, in which the incidence rate of gynecological disease is about 36%. To maintain a healthy female population, it is required to do 2 gynecological examinations per year.

### Conventional methodology and its disadvantages

The microscopic examination of clinical specimens has been well known as one of the rapid methods in diagnostic microbiology. But microscopic examination has many disadvantages and limitations (poor sensitivity and specificity, subjective, relies on experience)

### Autobio's solution

The product can diagnose female vaginal diseases, including *Lactobacillus*, leukocyte, Bacterial vaginosis(BV), Trichomoniasis vaginitis(TV), Candida vaginitis (CV) by detecting hydrogen peroxide, leukocyte esterase, neuraminidase, proline aminopeptidase N-acetyl-β-D-glucosaminidase and pH.

It features good sensitivity and specificity and reduces misdiagnosis resulting from subjective judgment.

## Test principle

### H<sub>2</sub>O<sub>2</sub> concentration

Under the catalysis of Oxidase, the H<sub>2</sub>O<sub>2</sub> in the reaction medium releases active Oxygen. The Oxygen then oxidizes TOOS and displays a purple or fuchsia color. The color intensity is directly proportional to the concentration of H<sub>2</sub>O<sub>2</sub>.

### Leukocyte Esterase detection

Leukocyte Esterase hydrolyses X-acetate. In the presence of Oxygen this biochemical reaction shown a blue color with an intensity directly proportional to the esterase activity.

### Neuraminidase

If Neuraminidase is present in the sample, it reacts with the specific substrate. Upon addition of a chromogenic reagent, a red or purple color will display with an intensity directly proportional to the Neuraminidase activity.

## Order information

Product	Quantity	Order No.
Vaginitis Multitest	20 Tests	B0104

## Autobio Group

offers more than 100 *in vitro* diagnostic products including ELISA, POCT (Point of Care Test), Microbiology and CLIA (Chemiluminescence). As an ISO 9001, EN 13485 and GMP certified manufacturer, Autobio supplies high quality products through its well established sales network and is reknown as a reliable OEM partner. For details please visit [www.autobio-diagnostics.com](http://www.autobio-diagnostics.com)

Autobio Diagnostics Co., Ltd. | No. 87 Jingbei Yi Road | National Eco & Tec Development Area | Zhengzhou | China 450016  
T: +86-371-6798-5313 | F: +86-371-6798-5804 | E: [info@autobio-diagnostics.com](mailto:info@autobio-diagnostics.com) | W: [www.autobio-diagnostics.com](http://www.autobio-diagnostics.com)

### Proline Aminopeptidase

... specifically hydrolyses its corresponding substrate and displays a yellow color with an intensity inversely proportional to the Proline Aminopeptidase activity.

### Acetyl Glucosaminidase

N-acetyl-β-D-glucosaminidase hydrolyses a corresponding substrate to display a yellow color under alkaline conditions. The color intensity is directly proportional to the N-acetyl-β-D-glucosaminidase activity.

### pH detection

The transition of color from yellow, cyan through to green blue represents the transition of pH from 3.8 to 5.4. If the NAG well is positive, and the pH ≥ 4.8 at the same time, the subject is infected with trichomoniasis vaginitis (TV). Otherwise, if the pH ≤ 4.6, the subject is infected with Candida vaginitis (VVC).

## Test Procedure



1 Add 6-8 drops of Sample Diluent into Sample Tube. Place the sample swab in Sample Tube and wash thoroughly.



2 After washing, gently press the wall of the Sample Tube to allow the solution adsorbed in the swab reflux into the tube. Discard the swab and retain the sample solution.



3 Unwrap one Vaginitis Cassette and gently remove the lid. Add 1 drop of the sample solution into each well with a dropper.



4 Add 1 drop of Chromogenic Reagent into the well marked with NA. Gently shake Vaginitis Cassette horizontally. Within 1 minute, read the pH value according to the Color Reference.



5 Incubate Vaginitis Cassette at 37°C ± 1°C for 15 minutes.



6 Add a drop of Stop Solution to the well marked with NAG. Read the results for the remaining 5 wells between 30 seconds and 2 minutes.