

# PANTOC

Vaginal Probiotic Powder Spray for Feminine Care





pH4.0 is a bio-FemTech brand that strives for women's health with an unrivaled lactobacillus databases. With the reliable databases, pH4.0 presents a innovative solution for women's personalized healthcare.



## Essential

**We put customers first.** We value the customer's core needs the most when communicating with internal and external customers. And we offer sustainable options to meet their needs.



## Creative Thinking

**We believe that crisis is an opportunity.** We are not afraid to carve out new paths to create better value in all situations.



## Integrity

**We believe that the process is as important as the outcome.** We actively and transparently communicate with internal and external stakeholders to present high-quality solutions and professional services.



We believe that a happy life begins with a balanced body and mind. It is why we exist to help all mothers and daughters in the world lead a happy daily life, and to help the body and mind that make women achieve a healthier balance.

And the essence of women's health that we present is a balanced female microbiome.

Female microbiome is unique. This is because the number of women's microbiomes is as diverse as the number of women in the world. In addition, since it is a unique environment for individuals, women's microbiomes need personalized care. We research and study for the recovery of female microbiomes with databases and professional technology obtained through a scientific approach.

For women's wellbeing, who should enjoy a healthy daily life anytime and anywhere, we, pH4.0, will present innovative pH level recovery solution and life cycle-specific health products.

**We are here for women's health and life.**





# 01

## Why Vaginal Probiotics

Do you know how vaginitis is treated?

Specialist's Diagnosis1	Get Prescription2	Vaginal Disinfection3	Administration Of Vaginal Tablets4
			
When a patient with symptoms of vaginitis visits the hospital, the doctor collects the patient's vaginal secretions to determine the cause of the vaginitis.	Depending on the results of the bacteria test, the doctor prescribes antibiotics, antibacterial drugs, or antiviral drugs to the patient.	Depending on the severity of the vaginitis symptoms, the doctor sterilizes and disinfects the patient's vaginal area to remove the bacteria that cause vaginitis.	Then, the doctor inserts a vaginal tablet into the patient's cleanly disinfected vagina. The main ingredient of the vaginal tablet is lactobacillus.

# 02

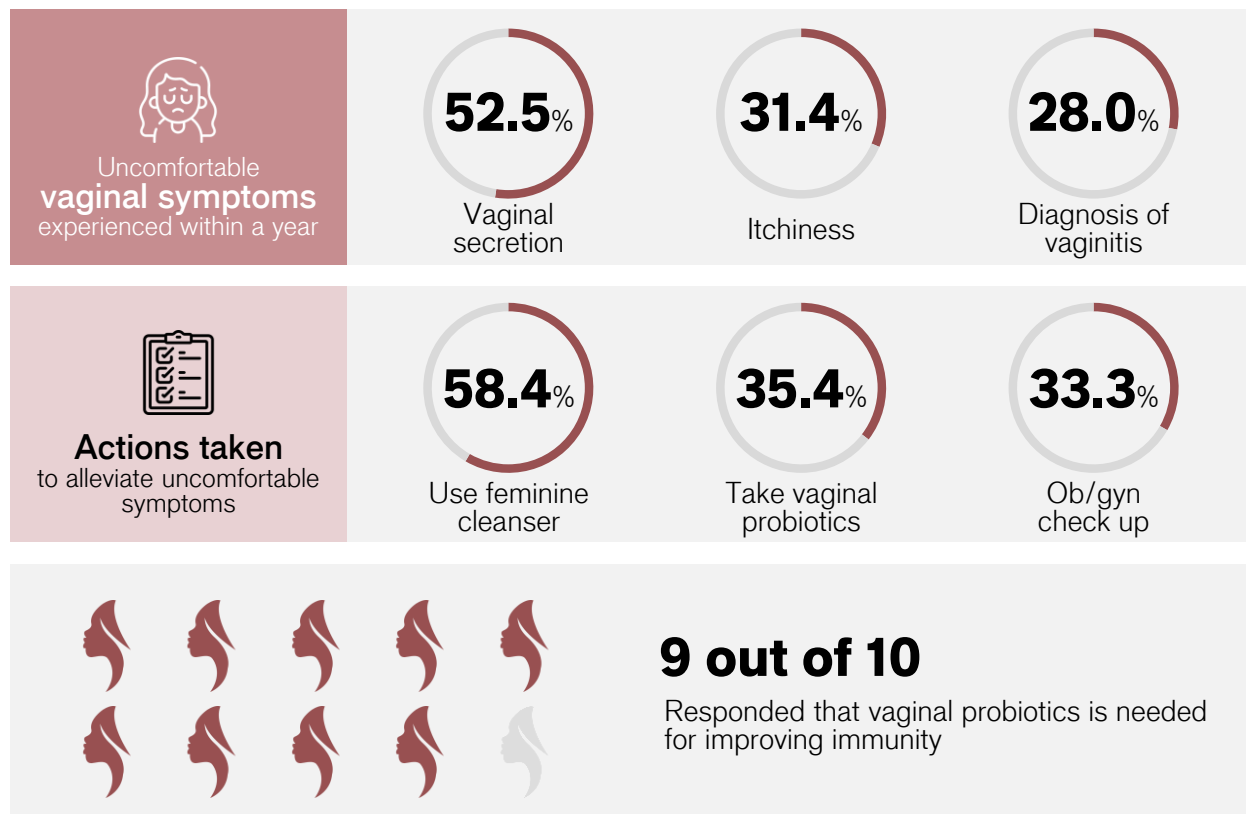
## Common Public Perception

### Common public perception and experience of vaginitis and vaginal probiotics infographic



**65.1%**

65.1% of respondents responded that they did not know how vaginal probiotics taken orally moves to reach the vagina.



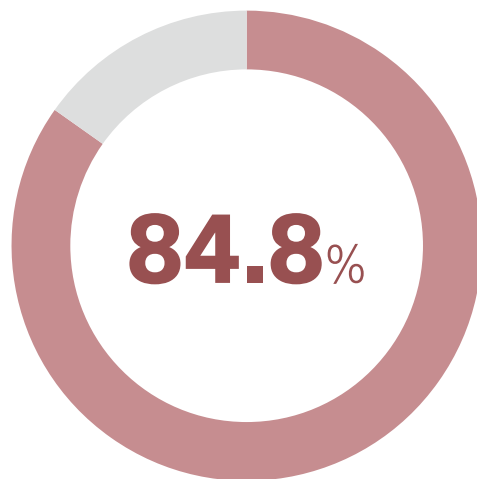
Reference

pH4.0 & Inus Community Research Team online survey result / Age 20 ~ 49, Korean women, n=510 (2023.6.30 ~ 2023.7.4)

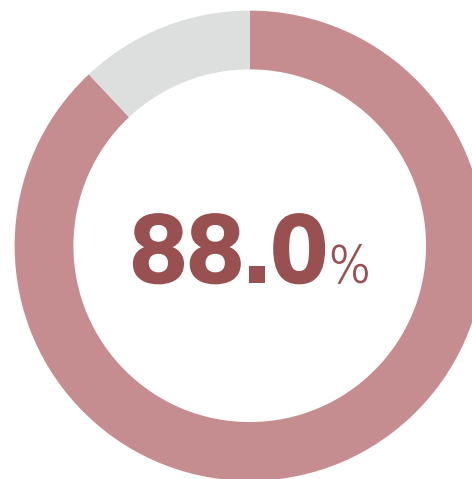
# 03

## Common Public misconception

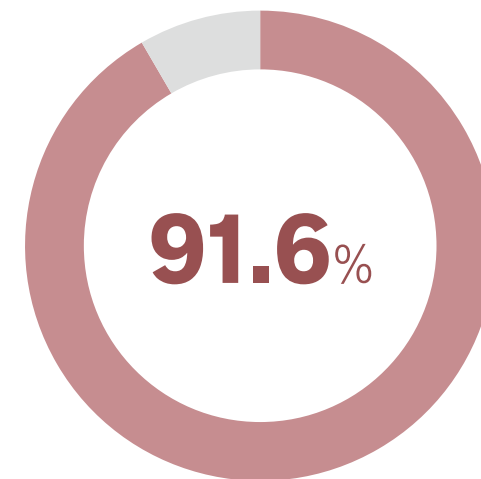
### Common public misconception about vaginitis and feminine care products infographic



Vaginal probiotics taken orally reaches vagina intactly.



Lactobacillus (Probiotic) ferment lysate is 100% alive probiotics.



Prevention and easing vaginitis symptoms & growth of good bacteria in vagina can be done by using feminine cleanser only.

Reference  
pH4.0 & Inus Community Research Team online survey result / Age 20 ~ 49, Korean women, n=510 (2023.6.30 ~ 2023.7.4)

# 04

How does  
vaginal probiotics  
work?

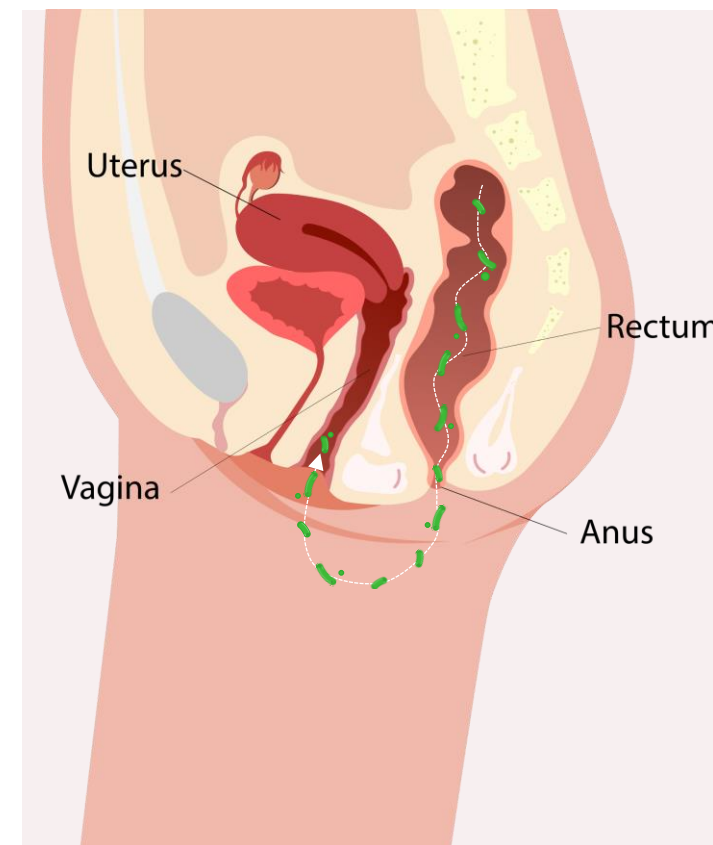
Do you know  
how orally taken vaginal probiotics move to the intimate area?

The vaginal lactobacillus that are orally taken goes through the digestive system and reaches the vagina.

Most of the ingested vaginal lactobacillus disappears due to strong acidic stomach acid and bile acid.

The moving mechanism of orally taken vaginal lactobacillus is that **a very small amount of lactobacillus that comes out of the feces is transferred to the vagina and settled in the vagina.**

This indicates a decrease in the survival rate of taken probiotics and a limitation in the transmittance. In addition, there is a problem that not only beneficial bacteria but also harmful bacteria are transferred to the vagina.

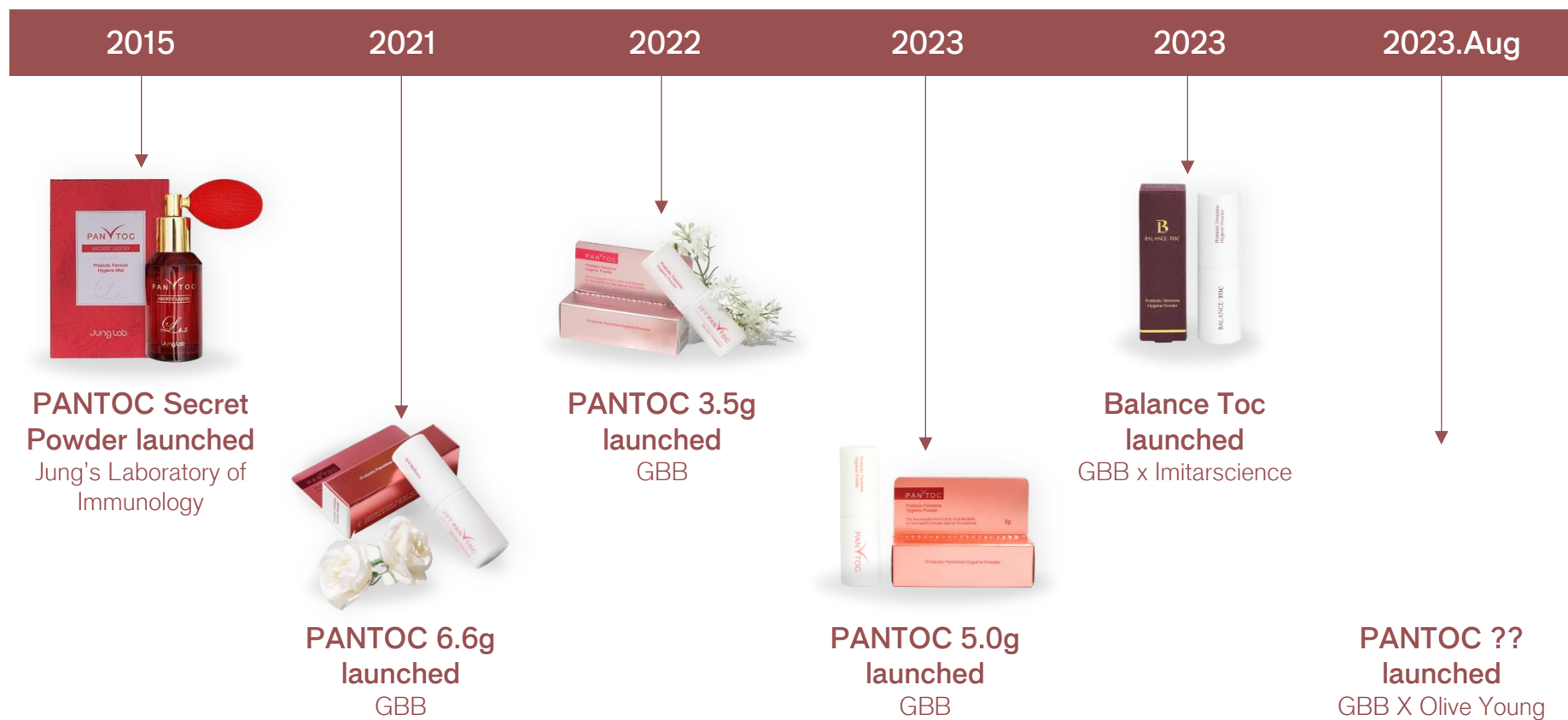


# 05

## PANTOC History

Then why not directly spray and supply live vaginal probiotics on the intimate area?

This question has brought PANTOC, vaginal probiotic powder spray on 2015.





# 06

## PANTOC, Vaginal Probiotic Powder Spray

### PANTOC, Vaginal Probiotic Powder Spray, 5 Main Points for Your Healthy Choice

Point  
**1**



Sprayable live feminine probiotic powder around  
your vaginal area

Point  
**2**



Supplementing patented & live vaginal lactobacillus

Point  
**3**



Safe to use – Tested & FDA registered

Point  
**4**



Safe Ingredients for pregnancy and Safe Ingredients  
for pregnancy and breast-feeding period

Point  
**5**



Easy to apply



# 06

## PANTOC, Vaginal Probiotic Powder Spray

Point 1

Point 2

Point 3

Point 4

Point 5

### Sprayable live feminine probiotic powder around your vaginal area

Pantoc is designed to **help maintain healthy vaginal pH level** by **spraying feminine probiotic powder** around your vaginal area, including underwear. Don't need to worry about its survivability through the long and acidic GI tract. Just spray the powder whenever you want; each time, pump 5~7 times on your underwear or liner.



# 06

## PANTOC, Vaginal Probiotic Powder Spray

Point 1

**Point 2**

Point 3

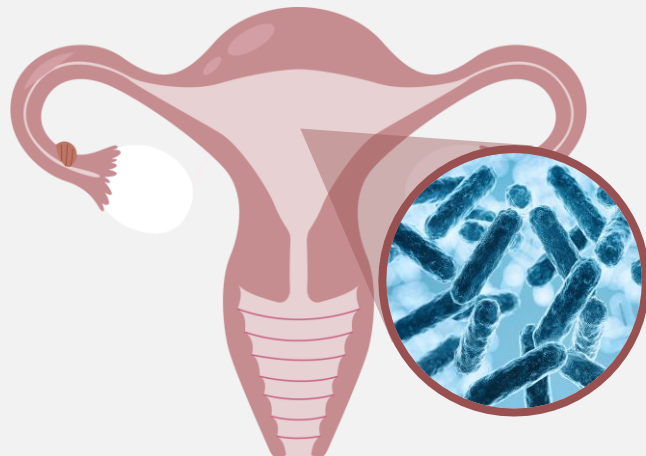
Point 4

Point 5

### Supplementing patented & live vaginal lactobacillus

Pantoc supplements **the exclusive and patented formula for vaginal lactobacillus**, *Lactobacillus plantarum* MB01. This strain is patented for functional composition for preventing and relieving vaginitis. Also unlike other feminine products, PANTOC **provides live probiotics**.

#### Vaginal Microbiome



Acid

**Subacid**

Alkaline

Helps keep the pH



# 06

## PANTOC, Vaginal Probiotic Powder Spray

Point 1 Point 2 **Point 3** Point 4 Point 5

### Safe to use - Tests, FDA registered

PANTOC is safe to use. It is **dermatologically tested, human body application tested, cosmetic safety and quality evaluated**. It is also **FDA registered**.

#### Dermatologically tested

##### Test # 1

Clinical trials to prevent and improve women's in vaginitis

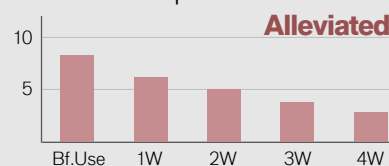
Escherichia coli and  
Staphylococcus aureus are  
dead after incubation

**9/24hrs**

After incubation,  
**inhibited  
microbial  
survival**  
with and increase in acidity

##### Test # 2

Evaluation of vaginitis symptoms  
SCORE after product use



#### Human body application tested

##### Test # 1

Dermatologically Tested on  
Sensitive Skin

**Result : 0.00**

Non-irritating Level  
Excellent

##### Test # 2

Improvement Test skin moisturizing  
effect

Reduction  
**10.06%**  
pH  
improvement

Improvement rate  
**20.85%**  
Moisturizing  
Effect

#### Cosmetic Safety and Quality Evaluation

##### Test # 1

Display ad verification test



**No  
Detection  
Of  
48 harmful  
ingredients**

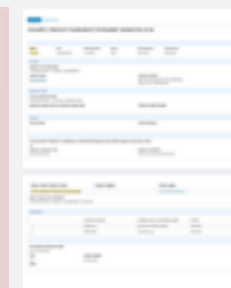
##### Test # 2

Safety management standards and  
container safety tests



**Meeting  
19Types of  
standards**

#### Officially FDA registered (The US / Japan)



# 06

## PANTOC, Vaginal Probiotic Powder Spray

Point 1

Point 2

Point 3

Point 4

Point 5

### Safe to use during pregnancy and breast-feeding period

PANTOC does not contain any unnecessary chemicals or artificial fragrances. **Only two ingredients are as follow: vaginal lactobacillus and rice powder.** It is **safe** for women **in pregnancy** and **during breast-feeding**.

### Vaginal Lactobacillus

*L.Plantarum* MB01

Supplements lactic acid bacteria  
found from healthy Korean  
women's vagina



### Rice Powder

Helps spraying the probiotic  
powder evenly, and smoothly



# 06

## PANTOC, Vaginal Probiotic Powder Spray

Point 1

Point 2

Point 3

Point 4

**Point 5**

### Easy to apply

**Use PANTOC whenever you want.** Shake PANTOC well before pumping. When you pump, pump five to seven times on your underwear, the sanitary pads or toilet paper that touches feminine area. You don't need to wash it away afterwards.

1



Open the cap.

2



Aim the nozzle on the underwear, liner, or sanitary pads where your intimate area touches.

3



Pump 5~7 times.

4



No need to wash it away afterwards.



Thank you

