



GenplexTM

MicroBiome Analysis

RT-PCR Multiplex Kit

(With Software Report)



**Comprehensive Vaginal
Microbiome Profiling**



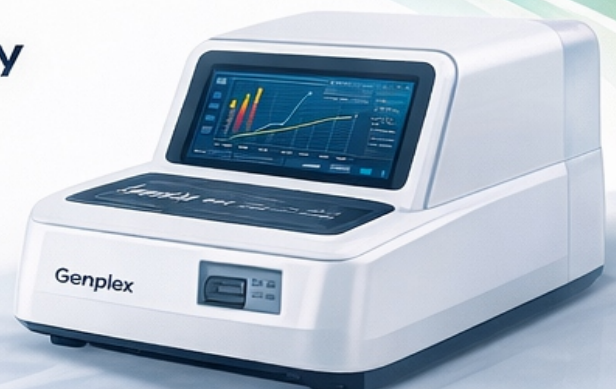
Multiplex RT-PCR Technology



**STIs, Pathogens &
Lactobacillus Analysis**



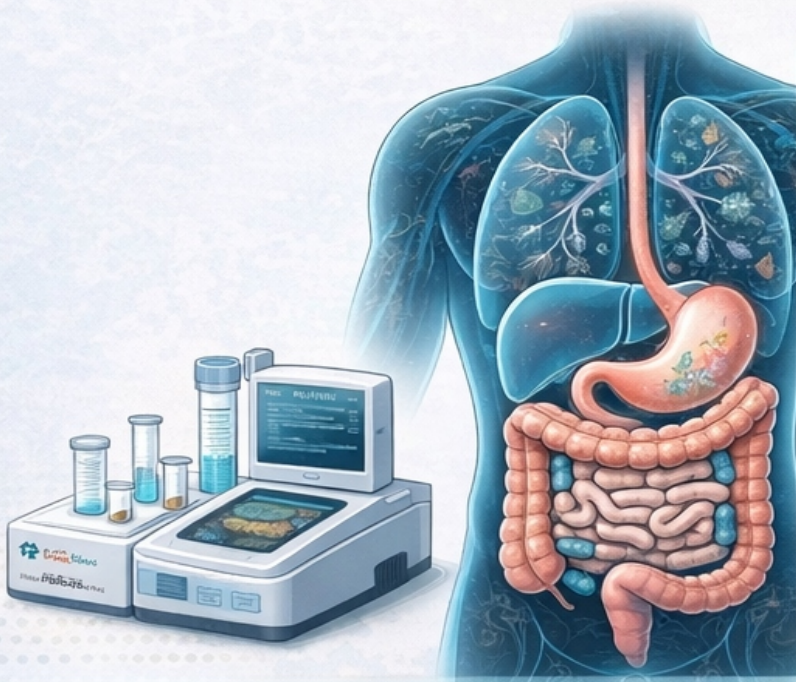
**Automated & Advanced
Software Reporting**



GenplexTM

GUT MICROBIOME MULTIPLEX RT-PCR KIT

AI-Powered Precision for Comprehensive Gut Health Analysis



KEY FEATURES



Multiplex RT-PCR Technology
(Simultaneous analysis of multiple targets)

AI-Based Integrated Software
(Advanced AI for comprehensive data analysis)



High Sensitivity & Specificity
(Accurate detection of low abundance organisms)



Cost-Effective Innovation
(Affordable, high-quality RNA extraction and detection)

Transforming Gut Health Diagnostics with Molecular Intelligence

UNDERSTANDING THE GUT MICROBIOME

Microbiome — highly diverse ecosystem of species, crucial for digestion, immunity, and overall health.

CLINICAL VALUE

- ✓ Optimum insights for personalized treatment strategies
- ✓ **Early detection** and intervention support

WHY GenplexTM

- ✓ First-in-india solution
- ✓ AI-driven precision
- ✓ Rapid & reliable results
- ✓ Comprehensive microbial coverage
- ✓ Affordable innovation



GenplexTM Vaginalis Microbiome Analysis RT-PCR Multiplex Kit (With Software Report)

Integrated Analysis & Advanced Reporting

- ✓ Use GenplexTM Software analyze
- ⚙ Reporting
- 🤖 Automated
- 📄 Advanced



UNDERSTANDING THE VAGINALIS MICROBIOME

Microbiome — highly diverse ecosystem of species, crucial for vaginal health, and overall health.

HEALTHY MICROFLORA

Essential protective microbiota, primarily *Lactobacilli*, maintaining a low vaginal pH.

Lactobacillus spp.
(e.g., *L. crispatus*,
L. gasseri)

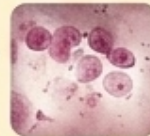


Lactobacillus

DYSBIOSIS INDICATORS

Indicators of an imbalance in microbial composition, often associated with bacterial vaginosis (BV).

Gardnerella vaginalis,
Prevotella spp.,
Mobiluncus spp.



Gardnerella

PATHOGENIC ORGANISMS (STI & Fungi)

Organisms that cause direct infections, including STIs and fungal pathotypes.

SEXUALLY TRANSMITTED INFECTIONS (STI) PATHOGENS:



Chlamydia trachomatis



Neisseria gonorrhoeae



Mycoplasma genitalium



Ureaplasma urealyticum

YEASTS / FUNGI: *Candida albicans*, *Candida glabrata*

CLINICAL VALUE

- ✓ Clinical Value: *Lactobacillus* dominance assess Healthy Microflora, protective bacteria, *Gardnerella* score assess Dysbiosis
- ✓ Clinical Value: *Prevotella* scores, assess Healthy Microflora, *Gardnerella* score assess Dysbiosis

HIGHLIGHTS

- 📊 Dynamic PCOA and Taxonomic Plots
- 👤 Relative abundance charts
- ✓ Trend analysis of *Lactobacilli*
- 📄 Comprehensive Automated Reports

WORKFLOW: FROM SAMPLE TO INSIGHT



Sample Collection & Transport



RNA Extraction & Purification



Multiplex RT-PCR Detection



AI Data Interpretation

GenplexTM MicroBiome Analysis RT-PCR Multiplex Kit

UNDERSTANDING THE MICROBIOME

THE HUMAN MICROBIOME: A diverse ecosystem of species, crucial for health, immunity, and overall well-being. It maintains balance and prevents disease.

TECHNOLOGY PLATFORM

Multiplex RT-PCR Technology: Simultaneous analysis of multiple microbial targets for precise results.

KEY PRODUCT FEATURES



AI-Powered Precision:
Integrated AI software for comprehensive data analysis



High Sensitivity & Specificity:
Accurate detection of low-abundance organisms



Cost-Effective Innovation:
Affordable, high-quality RNA extraction and detection



Fast & Reliable Turnaround:
Swift results for timely clinical decisions

VAGINAL MICROBIOME PROFILING (Genplex Vaginalis)



HEALTHY MICROFLORA
(e.g., Lactobacillus spp.)



DYSBIOSIS INDICATORS
(e.g., Gardnerella vaginalis, Atopobium spp.)



PATHOGENIC ORGANISMS
(e.g., STIs, Yeasts/Fungi)



GUT MICROBIOME ANALYSIS (Genplex GUT)



STOMACH Comprehensive analysis of key gut microbial groups.
SMALL INTESTINE
LARGE INTESTINE

Ordering Information

| Product Name | Cat No. | Pack Size |
|---|---------|-----------|
| GENPLEX TM GUT Microbiome Multiplex RT-PCR Kit | GP1088 | 48 |
| | GP1089 | 96 |
| GENPLEX TM Vaginal Microbiome Multiplex RT-PCR Kit | GP1090 | 48 |
| | GP1091 | 96 |



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