



GenplexTM

MicroBiome Analysis

RT-PCR Multiplex Kit

(With Software Report)



**Comprehensive Vaginal
Microbiome Profiling**



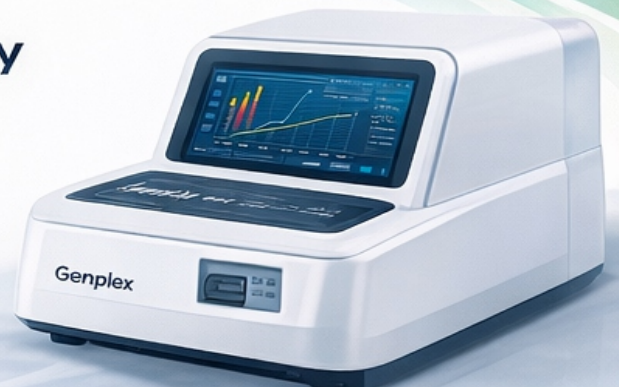
Multiplex RT-PCR Technology



**STIs, Pathogens &
Lactobacillus Analysis**



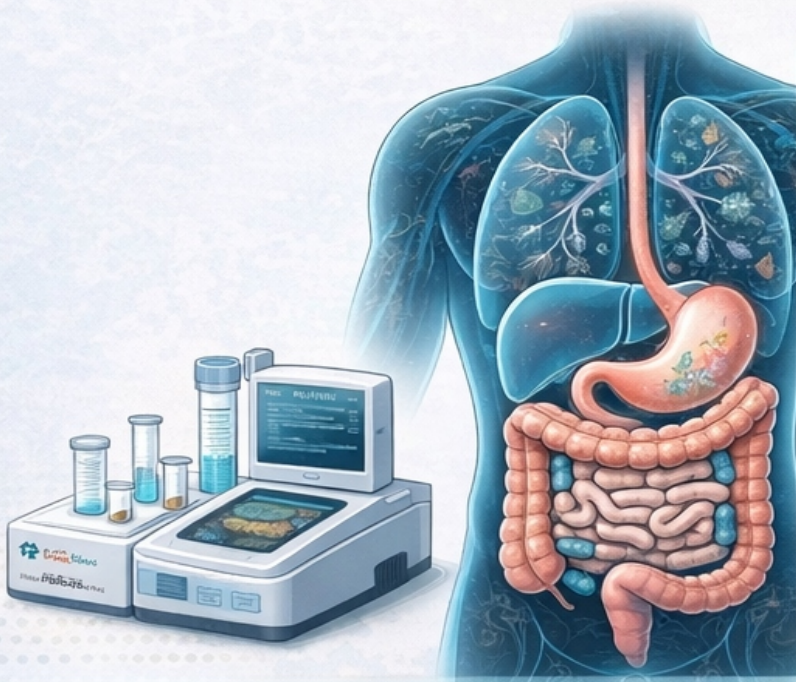
**Automated & Advanced
Software Reporting**



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)

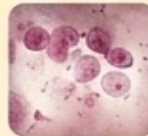


Lactobacillus

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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