



Neisseria Gonorrhoeae, Chlamydia Trachomatis, Ureaplasma Urealyticum Nucleic Acid Detection Kit (Fluorescent PCR)

■ | Product Introduction

Sexually transmitted infections (STIs) are common conditions prevalent among both women and men and are caused by various pathogens, including bacteria, viruses, fungi, and mycoplasma, individually or simultaneously. The primary etiological agents of STIs include Chlamydia trachomatis (CT), Neisseria gonorrhoeae (NG), Ureaplasma urealyticum (UU). The STIs caused by NG and CT are the common causes of vaginitis that can lead to tubal factor infertility, one of the most common causes of infertility that accounts for 30% of female fertility problems. UU infection can affect the morphology and quality of male sperms and therefore is an important cause for male infertility. UU and CT are important pathogens of nongonococcal urethritis. The sexual behaviour may prompt genital tract inflammation in male and female, which is an important factor of infertility.

Utilizing fluorescent PCR, this kit ensures accurate and simultaneous qualitative detection of NG, CT and UU pathogens, aiding in effective diagnosis and treatment. The kit contains UDG enzyme and dUTP as the anti-contamination measures to avoid false positive results.

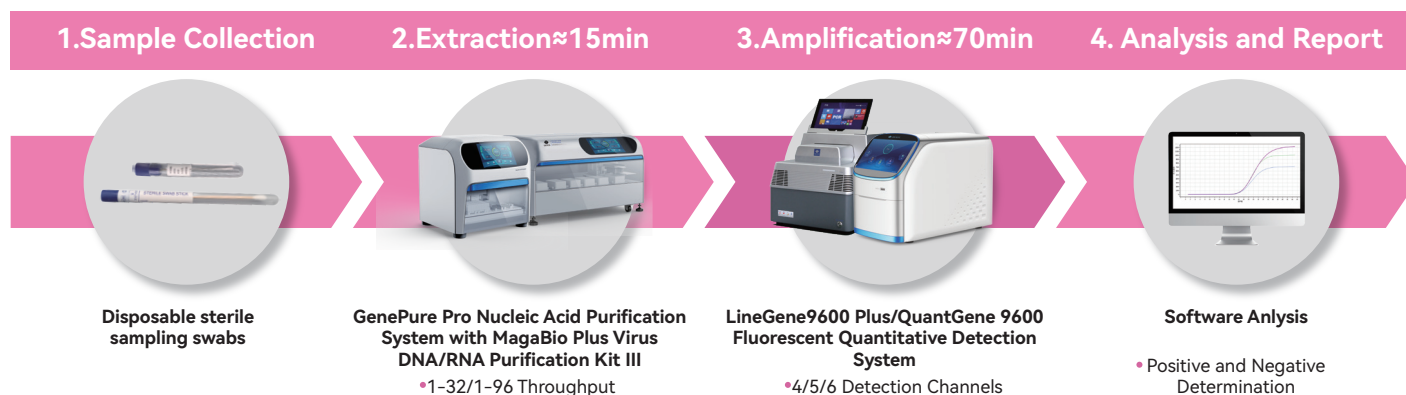
■ | Product Features

- **Multiplex Detection:** 3 in 1 test for CT/NG/UU.
- **Rapid and Efficient:** From sample extraction to result out, the entire process can be completed within 90 minutes.
- **Internal Control Included:** Incorporates an internal control to monitor the entire extraction and detection process, ensuring reliability and quality of the results.
- **Anti-contamination System:** UDG enzyme and dUTP to fully degrade possible contamination and avoid false positive results.

Product Specifications

Sample Type	Male urine swab, female cervical swab
Limit of Detection (LoD)	NG: 1000 bacteria/mL CT: 1000 copies/mL UU: 1000 CCU/mL
Target Pathogen	NG (HEX/VIC), CT (FAM), UU (ROX)
Internal Control	Human RNase P gene (CY5)
Precision	The variation coefficient (CV) of within-day, between-day, within-batch and between-batch were less than 5%
Compatible Platform	LineGene 9600 Plus (FQD-96A) , QuantGene 9600(FQD-96C), Thermo Fisher ABI7500
Recommended Extraction Kit	BSC86 MagaBio Plus Virus DNA/RNA Purification Kit III
Detection Time	70 min
Storage Condition	-25°C ~ -15°C away from light

Product Workflow



Clinical Performance

● Neisseria Gonorrhoeae (NG)

Sensitivity: 100% (97.36% ~100.00%)

Specificity: 100% (99.44% ~100.00%)

Accuracy: 100% (99.54% ~100.00%)

● Chlamydia Trachomatis (CT)

Sensitivity: 100% (98.29% ~100.00%)

Specificity: 99.83% (99.05% ~100.00%)

Accuracy: 99.88% (99.30% ~100.00%)

● Ureaplasma Urealyticum (UU)

Sensitivity: 99.77% (98.71% ~99.99%)

Specificity: 99.73% (98.50% ~99.99%)

Accuracy: 99.75% (99.10% ~99.97%)

Ordering Information

Product Name	Cat. No.	Package	Storage Condition
Neisseria Gonorrhoeae, Chlamydia Trachomatis, Ureaplasma Urealyticum Nucleic Acid Detection Kit (Fluorescent PCR)	BSJ02S1/BSJ02M1/BSJ02L1	32T/48T/96T	-25°C ~ -15°C away from light

For in vitro diagnostic use only.

For professional use only.



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TECHNOLOGY**

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