

smartchek®

STI Test Kit

(Sexually Transmitted Infection)



40 minutes of reaction time using **genechecker** UF-300 and UF-340 platforms



Simple workflow by minimized handling for multi-target detection



Excellent testing performance assured by high sensitivity and specificity



Compact and affordable solution that suits any application



Assay is designed to detect 6 types of sexually transmitted pathogens at a single PCR run

THE IMPORTANCE OF SYSTEMATIC DETECTION OF SEXUALLY TRANSMITTED PATHOGENS

Sexually Transmitted Infection (STI) is a major public health problem that can lead to serious consequences including neurological and cardiovascular disease, infertility, and stillbirths. Most people with STI have no symptoms, so early diagnosis is one of the key factors to prevent transmission of the disease. Currently, molecular diagnosis is the most sensitive and accurate method for detection of sexually transmitted pathogens. Increasingly, multiplex PCR is being used for STI testing, enabling the simultaneous detection of significant sexually transmitted pathogens. **smartchek** STI Test Kit is a real-time polymerase chain reaction assay, intended for diagnosis of sexually transmitted infection using **genechecker** UF-300 and UF-340 Real-time PCR System.

BETTER DETECTION ASSAY FOR YOUR TIMELY AND ACCURATE DIAGNOSIS

This assay is containing specific primer pairs and probes of *Ureaplasma urealyticum* (UU), *Chlamydia trachomatis* (CT), *Mycoplasma hominis* (MH), *Mycoplasma genitalium* (MG), *Neisseria gonorrhoeae* (NG), and *Trichomonas vaginalis* (TV) which are most common sexually transmitted pathogens. This assay uses real-time polymerase chain reaction (PCR) technology and TaqMan® probe chemistry to detect target pathogens. The specific sequences of target pathogen are amplified through PCR process. Real-time amplification curves are displayed on **genechecker** UF-300 and UF-340 Real-time PCR platforms by the method of monitoring fluorescence signals generated from the reporter dye on 5' end of the probes after exonuclease activities.

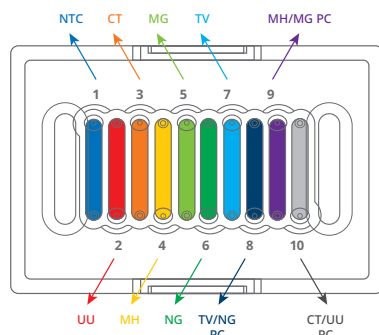
THE KIT IS DESIGNED TO DETECT SIX MAIN PATHOGENS AT A SINGLE PCR RUN

smartchek STI Test Kit has been developed to detect UU, CT, MH, MG, NG, and TV. The primer pairs and probes for 6 types of STI pathogens are pre-labeled (dehydrated) in the wells of the test chip, so that the user won't need to pipette primer pairs and probes when running the test.

KIT CONTENTS / STORAGE

No.	Contents	Volume / Quantity	Description	Storage
1	Test Chip	25EA	Individually vacuum packed	Store at below -20°C
2	Premix	250µl x 5tubes	Tubes with blue label on the cap	
3	Nuclease Free Water	100µl x 5tubes	Tubes with white label on the cap	
4	Sealing Tapes	25EA	5 pieces on a plastic sheet	
5	2-strip Tube	25EA	0.2mL (for mixing premix and template)	

CONFIGURATION OF TEST CHIP

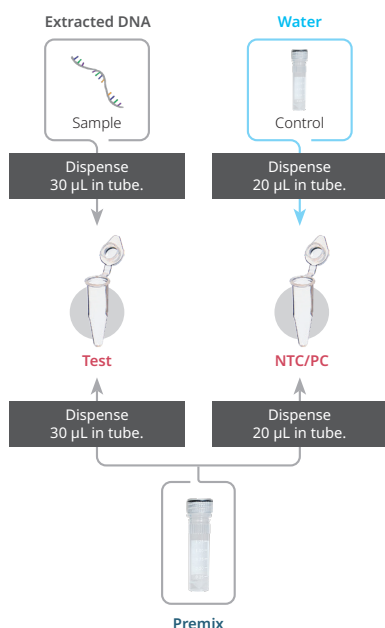


Primer pairs and probes for 6 types of STI pathogens are labeled in each well. Well number 1 is for running negative control and each well from number 8-10 is for running positive controls. With this test chip configuration, *Ureaplasma urealyticum* (UU), *Chlamydia trachomatis* (CT), *Mycoplasma hominis* (MH), *Mycoplasma genitalium* (MG), *Neisseria gonorrhoeae* (NG), and *Trichomonas vaginalis* (TV) can be detected at a single PCR run.

WORKFLOW

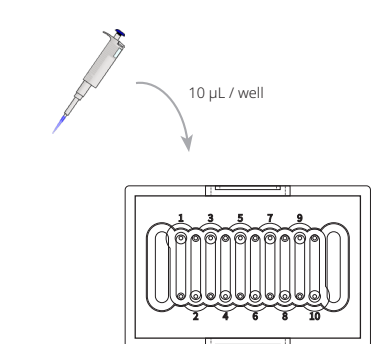
STEP 1.

Preparing Reaction Mixture



STEP 2.

Sample Loading Into Test Chip



Prepared mixtures are loaded in each well of the chip where primer pairs and probes are pre-labeled. The mixture in a tube is dispensed in 6 wells of test chip corresponding to UU, CT, MH, MG, NG, TV. Well number 1 is for no template control and well number 8, 9 and 10 is for positive control where the mixture of Nuclease free water and premix is loaded.

STEP 3.

PCR and Analysis

genechecker
Real-time PCR System



5 min.

40 min.

ORDERING INFORMATION

Catalog No.	Product	Pack size
9799160200	smartcheck STI Test Kit	25tests/PK
1399100200	genechecker UF-300 Real-time PCR System	1 SET
1499100100	genechecker UF-340 Four-in-One Real-time PCR System	1 SET

Genesystem Co., Ltd.