



# MassEasy STD Detection Kit

STD : Sexually Transmitted Diseases

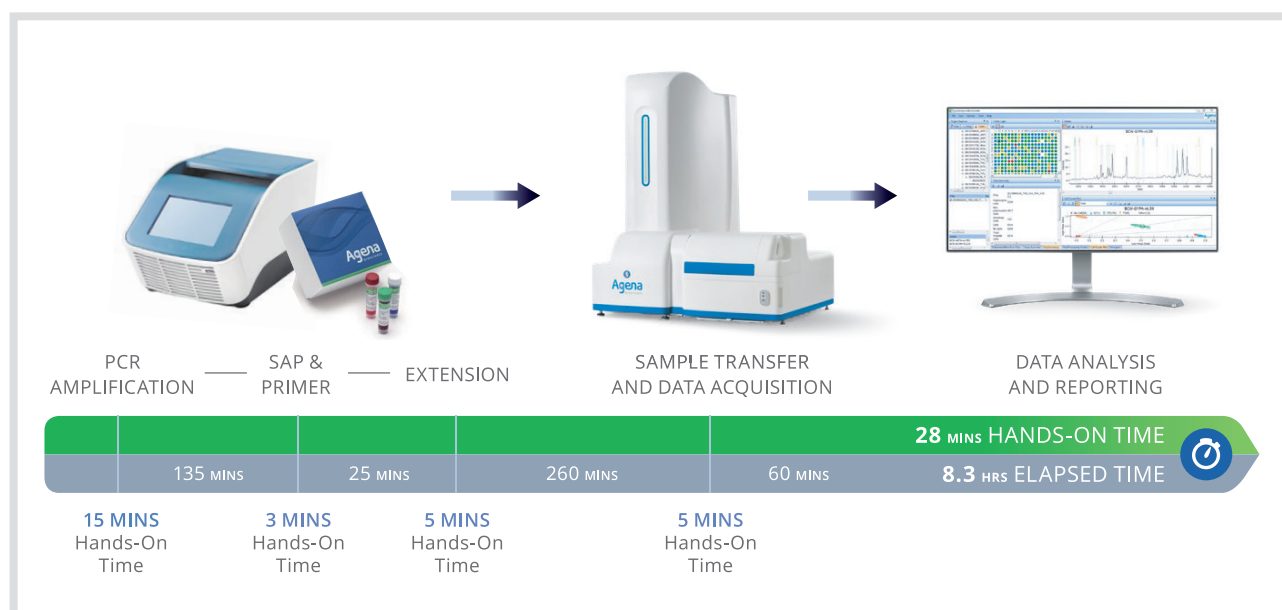
# MassEasy STD Detection Kit

STD : Sexually Transmitted Diseases

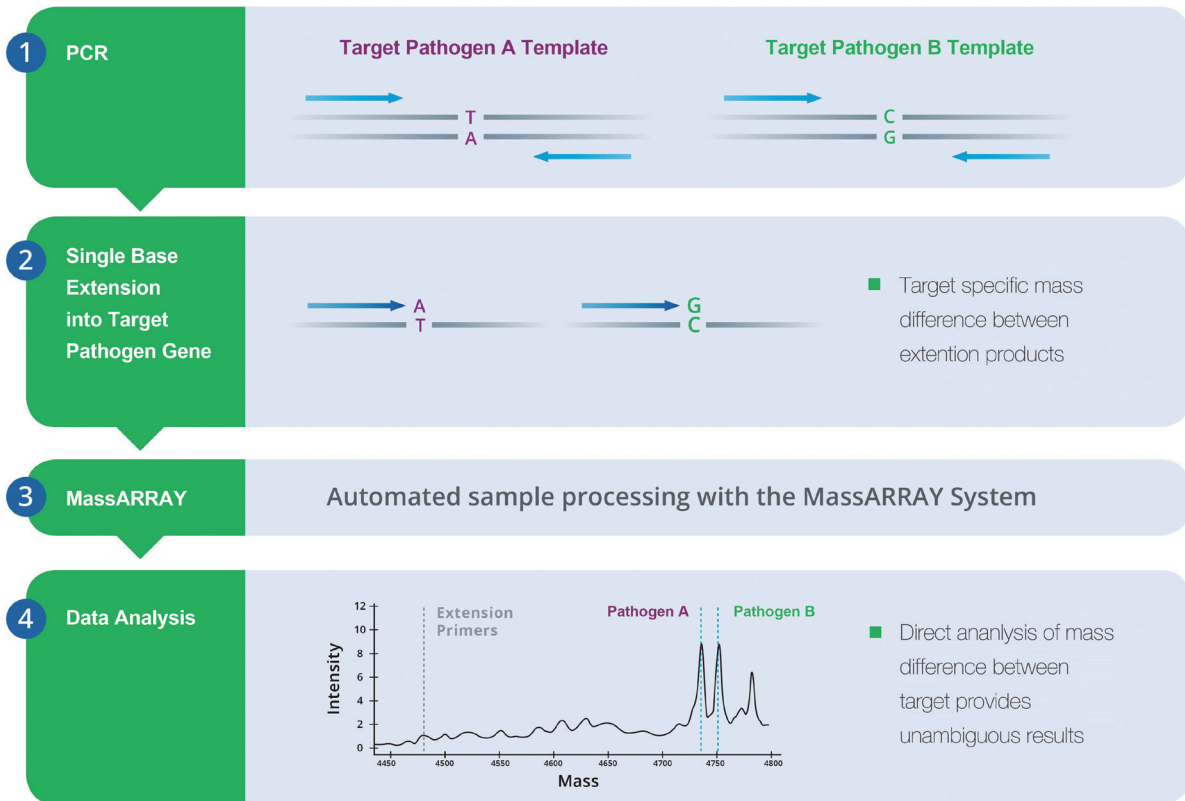
Sexually transmitted diseases (STDs) are infections that are passed from one person to another through sexual contact. The causes of STDs are bacteria, parasites, yeast, and viruses. The MassEasy STD detection kit is designed to detect multiple pathogens of sexually transmitted infectious disease using the MassARRAY® System (Agena Bioscience™). The principle of MassEasy STD detection kit is based on the MassARRAY® iPLEX Pro chemistry. This kit detects 12 pathogens in a single reaction and identifies them based on mass differences between target pathogens, which gives greater specificity and sensitivity in comparison with other PCR-based detection kits. The 12 pathogens include Chlamydia trachomatis, Neisseria gonorrhoeae, Mycoplasma genitalium, Mycoplasma hominis, Trichomonas vaginalis, Ureaplasma urealyticum, Gardnerella Vaginalis, Candida Albicans, Treponema pallidum, Ureaplasma parvum, Human herpes simplex virus 1 and Human herpes simplex virus 2.

## DETECTION TECHNOLOGY

The MassARRAY® System uses matrix-assisted laser desorption ionization time-of-flight mass spectrometry (MALDI-TOF MS). The system, coupled with the iPLEX Pro chemistry which utilizes single-base extension PCR, enables high-throughput multiplex SNP detection. The PCR and extension primers in the MassEASY STD kit have been optimized to amplify specific regions for each target organisms.



## Target pathogen detection with iPLEX Pro



### FEATURES AND BENEFITS

Simultaneous detection of multiple target pathogens from a single well (13-plex including 12 targets and one control)

Accuracy; pathogen-specific target gene region prevents contaminated between pathogens.

Excellent sensitivity; low copy number (1~10) of target gene is enough for detection

Convenience; urine and vaginal swabs can be used for sample collection.

Internal control; one human housekeeping gene is included in the kit and this can be used for validation of your sample preparation.

High throughput; large number of samples (up to 384 samples) can be analyzed at once.

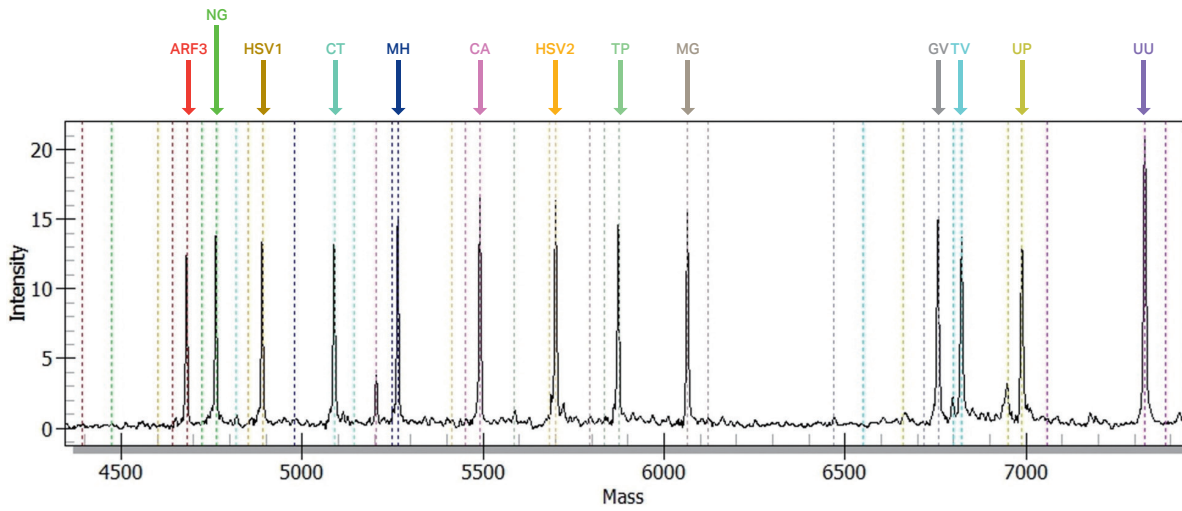
Easy reporting; Automatic analyzing by Typer 4.0 software program, and reporting by user friendly developed software.

### TARGET PATHOGENS

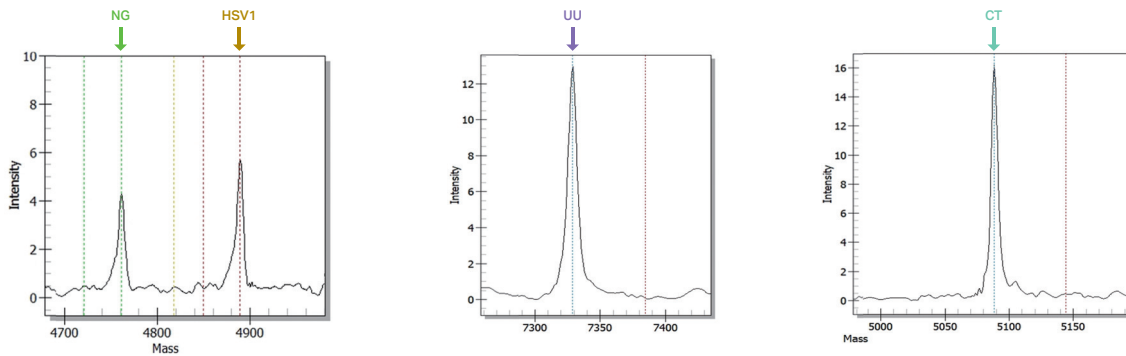
Target organisms	Species
Gardnerella Vaginalis (GV)	Bacteria
Candida Albicans (CA)	Yeast
Treponema pallidum (TP)	Bacteria
Ureaplasma parvum (UP)	Bacteria
Chlamydia trachomatis (CT)	Bacteria
Mycoplasma genitalium (MG)	Bacteria
Ureaplasma urealyticum (UU)	Bacteria
Neisseria gonorrhoeae (NG)	Bacteria
Mycoplasma hominis (MH)	Bacteria
Trichomonas vaginalis (TV)	Parasite
Human herpes simplex virus 1	Virus
Human herpes simplex virus 2	Virus
Internal control	Human (ADP-ribosylation factor 3; ARF3)

## SPECIFICITY

Detection of 12 Pathogens and One Internal Control (ARF3) with Positive Controls

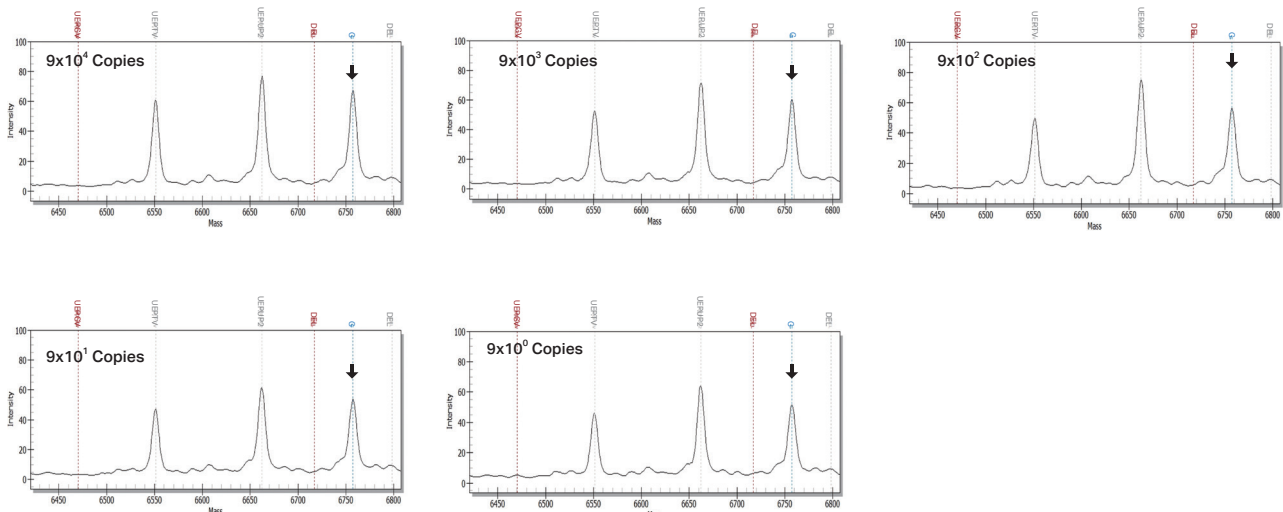


Detection of Target Pathogens



## SENSITIVITY

Sensitivity was tested with serial dilution of recombinant plasmid containing target region of *Gardnerella Vaginalis* (GV). Tests with other pathogen targets also showed similar results.



## ORDERING INFORMATION

Product Description	Catalog Number	Unit
STD oligo complete set 96	LASSTD12-001	96 rxn
STD oligo complete set 384	LASSTD12-002	384 rxn
Complete iPLEX Pro Genotyping reagents	See the note below	

*Please Note: The MassEASY STD Oligo Complete Set listed above was developed and tested by LAS, Inc. It was designed to be used in conjunction with Agena Bioscience's MassARRAY System and iPLEX Pro genotyping reagents for both 96-well or 384-well plate formats.*

*Please contact Agena Bioscience Inc. ([www.AgenaBioscience.com](http://www.AgenaBioscience.com)) or their authorized distributors to purchase Complete iPLEX Pro reagents kits to run these assays.*

## FOR RESEARCH USE ONLY

## CONTACT

For more information and details on how to offer the product from your institution, please contact LAS Inc.

**LAS Inc.**  
16 Aroyuk-ro, Gimpo, KOREA, 10136  
T. +82-2-3486-0911~2 / [info@lascience.co.kr](mailto:info@lascience.co.kr)  
[www.lascience.co.kr](http://www.lascience.co.kr)

**LAS**  
Life is Art of Science