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DIAGNOSTICS
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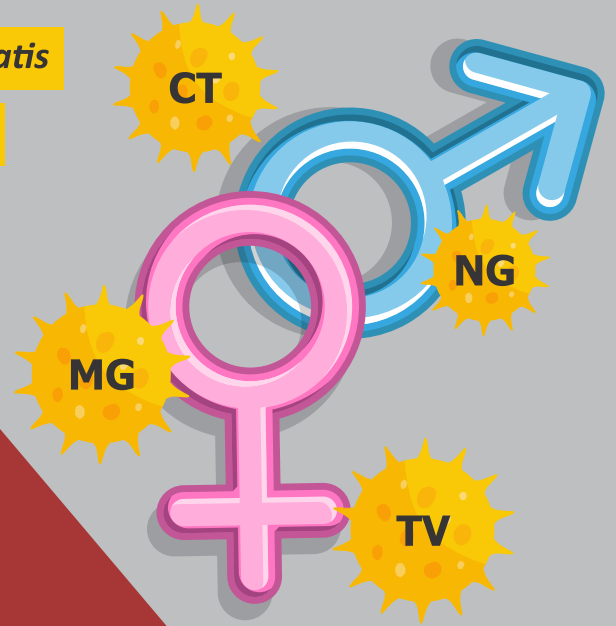
SARAPLEX™ Sexually Transmitted Infection (STI) Panel Real-Time PCR Test

Chlamydia trachomatis

Neisseria gonorrhoea

Mycoplasma genitalium

Trichomonas vaginalis



SARAPLEX™ STI Panel Real-Time PCR Test Information

SARAPLEX™ STI (Sexually Transmitted Infections) Test is a research use only multiplex test based on real-time PCR technology for the simultaneous qualitative detection of the *Chlamydia trachomatis* (CT), *Neisseria gonorrhoea* (NG), *Mycoplasma genitalium* (MG) & *Trichomonas vaginalis* (TV).

Results within two hours

The STI RT-PCR test can be performed in less than two hours. The test requires a clean, contamination free environment with Hood, Centrifuge, Pipettes and RT-PCR machine. This Kit is compatible with most RT-PCR devices with Green, Yellow, Orange, Red and Crimson channels and it can be customized to work with a myriad of dyes and PCR technologies.



STI Panel Real Time-PCR Kit

- Compatible with multiple sample types.
- Contains a simple and streamlined work flow.
- Kit also includes an internal control to verify sample quality.
- Includes positive control.
- Produces results that are easy to interpret.
- Compatible with multiple platforms & sample extraction techniques.



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Sensitive, Fast and Affordable Molecular Diagnostics
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SARAPLEX™

Sexually Transmitted Infection (STI) Panel

Real-Time PCR Test Specifications

About CoDx™ Technology

The STI Kit is developed using a revolutionary molecular diagnostics technology called CoPrimers™, a technology invented and patented by Co-Diagnostics Inc. (Utah, USA).

CoDx technology is mathematically engineered to enhance the speed, accuracy and cost-effectiveness of RT-PCR. The technology is based on cooperative theory, a mathematical model developed by Brent Satterfield, Ph.D. This model applies advanced algorithms and bioinformatics to optimize design parameters with analyte targets. In comparison with other technologies, the CoPrimers reduce the formation of primer-dimers, increase specificity and increase ability to multiplex. The Journal of Molecular Diagnostics (March 2014) introduced CoPrimers as a “new class of primer technology that greatly reduces primer-dimer propagation, showing a 2.5 million-fold improvement in reduction of nonspecific amplification.”



Application	Qualitative RT-PCR test										
Sample type	Endocervical / Urethral / Vaginal / Anorectal / Oropharyngeal swabs & urine samples.										
Type of detection	Presence or Absence of <i>Chlamydia trachomatis</i> (CT), <i>Neisseria gonorrhoea</i> (NG), <i>Mycoplasma genitalium</i> (MG) & <i>Trichomonas vaginalis</i> (TV).										
Specificity	In silico analysis found no cross reactivity with HBV, HCV, HPV-HR, SARS CoV-2, Dengue and Chikungunya Viruses.										
Analytical Sensitivity	<table border="1"> <thead> <tr> <th>Marker</th> <th>Limit of Detection (Copies/ µl)</th> </tr> </thead> <tbody> <tr> <td>CT</td> <td>0.482</td> </tr> <tr> <td>NG</td> <td>0.210</td> </tr> <tr> <td>MG</td> <td>0.71</td> </tr> <tr> <td>TV</td> <td>0.19</td> </tr> </tbody> </table>	Marker	Limit of Detection (Copies/ µl)	CT	0.482	NG	0.210	MG	0.71	TV	0.19
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CT	0.482										
NG	0.210										
MG	0.71										
TV	0.19										
Thermal cycler compatibility	Green Channel (FAM™), Yellow Channel (Cal Fluor® Orange 560), Orange Channel (Cal Fluor® Red 610) Red Channel (Quasar® 670) and Crimson Channel (Quasar® 705)										

STI Kit Includes

MM	Master Mix
PC	Positive Control
NC	Negative Control

Ordering Information

Product Name	Product Code	Number of Reaction
SARAPLEX™ Sexually Transmitted Infection (STI) Panel	STI01	25 Rxs
		50 Rxs
		100 Rxs

Intended Use:

For detection of *Chlamydia trachomatis* (CT), *Neisseria gonorrhoea* (NG), *Mycoplasma genitalium* (MG) & *Trichomonas vaginalis* (TV).

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