



COSARA
DIAGNOSTICS
PVT. LTD

SARAPLEX™ Influenza Multiplex (Flu A/Flu B/H1N1/H3N2 Differentiation) Real-Time PCR Test



SARAPLEX™ Influenza Multiplex Real-Time PCR Test Information

SARAPLEX™ Influenza Multiplex Test is a Real-Time PCR test for the simultaneous qualitative detection and differentiation of Influenza A, Influenza B, H1N1 and H3N2 virus from clinical samples of patients suspected with respiratory infection.

Results within three hours

The INFLUENZA MULTIPLEX test can be performed in less than three 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 channels and it can be customized to work with a myriad of dyes and PCR technologies.



Influenza Multiplex 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.



Sarabhai Campus,
Opp. Ranoli Railway Station,
Ranoli - 391350, Dist. Vadodara, India.

Sensitive, Fast and Affordable Molecular Diagnostics
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SARAPLEX™ Influenza Multiplex (Flu A/Flu B/H1N1/H3N2 Differentiation) Real-Time PCR Test Specifications

About CoDx™ Technology

The Influenza Multiplex 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										
Sample type	Nasopharyngeal and Oropharyngeal Swabs										
Type of detection	Presence or absence of Influenza A, Influenza B, H1N1 and H3N2 specific RNA										
Specificity	No cross reactivity with HCV, SARS CoV-2, Dengue and Chikungunya Viruses.										
Sensitivity	<table border="1"> <thead> <tr> <th>Marker</th> <th>Limit of Detection (Copies/μl)</th> </tr> </thead> <tbody> <tr> <td>Influenza A</td> <td>2.5 Copies/μl</td> </tr> <tr> <td>Influenza B</td> <td>5 Copies/μl</td> </tr> <tr> <td>H1N1</td> <td>0.25 Copies/μl</td> </tr> <tr> <td>H3N2</td> <td>2.5 Copies/μl</td> </tr> </tbody> </table>	Marker	Limit of Detection (Copies/μl)	Influenza A	2.5 Copies/μl	Influenza B	5 Copies/μl	H1N1	0.25 Copies/μl	H3N2	2.5 Copies/μl
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H3N2	2.5 Copies/μl										
Thermal cycler compatibility	Green Channel (FAM™), Yellow Channel (Cal Fluor® Orange 560), Orange Channel (Cal Fluor® Red 610) Red Channel (Quasar® 670)										

Influenza Multiplex Kit Includes

MM 1	Master Mix 1 (Flu A/Flu B/IPC)
MM 2	Master Mix 2 (H1N1/H3N2/IPC)
PC 1	Positive Control 1 (Flu A/Flu B/IPC)
PC 2	Positive Control 2 (H1N1/H3N2/IPC)
NC	Negative Control

Ordering Information

Product Name	Product Code	Number of Reaction
SARAPLEX™ Influenza Multiplex Real-Time PCR Test	IFM01	25 RxS
		50 RxS
		100 RxS

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