virotype[®] Mix +IC(JOE)-RNA Product Sheet

For real-time amplification of viral RNA and Internal Control RNA



96 reactions (cat. no. MX299935)



INDICAL BIOSCIENCE GmbH, Deutscher Platz 5b, 04103 Leipzig, Germany



Contents

virotype Mix +IC(JOE)-RNA	(96)
Cat. no.	MX299935
Number of reactions	96
virotype Mix +IC(JOE)-RNA Mix contains buffer, enzymes, primers and probe for Internal Control and Internal Control RNA	2 x 750 µL

Intended use

The virotype Mix +IC(JOE)-RNA contains synthetically derived nucleic acids and enables real-time amplification of viral RNA and the Internal Control RNA.

For molecular biology applications. This product is not intended for the diagnosis, prevention or treatment of a disease.

Quality control

Each lot of this product was manufactured and released in accordance with INDICAL's ISO-certified Quality Management System.

Storage and handling

Upon receipt, store the material at -30°C to -15°C, away from any sources of contaminating DNA or RNA, especially amplified DNA products and material used for PCR master mixes. Protect from light during storage and handling. Use aerosol barrier pipet tips for pipetting. Do not use after the expiration date printed on the label. Avoid repeated thawing and freezing (>2x), because this may reduce performance. If used intermittently, aliquot the material and freeze.

Safety information

When working with chemicals, always wear a suitable lab coat, disposable gloves and protective goggles. For more information, please consult the appropriate safety data sheets (SDSs). These are available from your regional sales manager or at **compliance@indical.com**.

All sample residues and objects that have come into contact with samples must be decontaminated or disposed of as potentially infectious material.

Warning and precautions

Dispose of all materials in accordance with national and local regulations.

Principle

The virotype Mix +IC(JOE)-RNA provides multiplex real-time RT-PCR detection of one or more nucleic acid targets and the heterologous Internal Control using dual-labelled probes.

The Internal Control RNA is already added to the virotype Mix +IC(JOE)-RNA and will result in positive signals in No Template Control (NTC) reactions. Missing Internal Control signals in the sample reaction may indicate the presence of inhibitors or other issues with the sample reaction.

Procedure

- Thaw virotype Mix +IC(JOE)-RNA on ice and protect from light
- Mix virotype Mix +IC(JOE)-RNA thoroughly by inversion of the tube several times and spin the mix briefly
- Prepare the reaction mix using the volumes listed in Table 1
- Transfer the reaction mix to the appropriate PCR tubes/ wells
- Add sample nucleic acid, close the tubes or seal the plate, and invert 3-5 times to mix the content thoroughly
- Spin for 5 seconds to centrifuge the droplets to the bottom of the PCR tubes/ wells

Component	Volume per reaction
virotype Mix +IC(JOE)-RNA	15 µL
Primers and Probe(s) to target(s) of interest**	2 µL
Sample nucleic acid	8 µL
Total volume of PCR reaction	25 µL

Table 1. Preparation of the Reaction Mix*

* Use 12 μ L of virotype Mix +IC(JOE)-RNA for 20 μ L PCR reactions and adjust remaining components per lab specific configuration. ** Recommended primer concentration 400 to 800 nM and a probe concentration of 200 nM per final reaction.

Filter settings

- The probe detecting the Internal Control is JOE[™] labeled. Please check your real-time cycler for availability of the corresponding detection channel.
- The virotype Mix +IC(JOE)-RNA contains ROX[™] dye as a passive reference dye. This allows the use on instruments of Applied Biosystems^{™,} like Applied Biosystems 7500, ViiA[™] 7 and QuantStudio[™] Systems.

Step	Temperature	Time	Number of cycles
Reverse Transcription	50°C	10 min	1
Initial Activation	95°C	2 min	1
2-step cycling			
Denaturation	95°C	5 s	
Combined Annealing/ Extension*	60°C	30 s	40

Cycling conditions

* Fluorescence data collection

Notes

Notes

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Change index

Product Sheet	Version	Change
HB-2523-EN-002	June 2021	Adjustment Procedure steps
HB-2523-EN-001	January 2020	Product launch



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