

# virotype<sup>®</sup> Mix +IC(TAMRA)-RNA Product Sheet

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

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**REF** 96 reactions (cat. no. MX289955)

**REF** 480 reactions (cat. no. MX289957)

**REF** 4800 reactions (cat. no. MX289959)



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# Contents

<b>virotype</b>	<b>(96)</b>	<b>(480)</b>	<b>(4800)</b>
<b>Mix +IC(TAMRA)-RNA</b>	<b>MX289955</b>	<b>MX289957</b>	<b>MX289959</b>
<b>Cat. no.</b>			
<b>Number of reactions</b>	<b>96</b>	<b>480</b>	<b>4800</b>

  

virotype			
Mix +IC(TAMRA)-RNA			
Mix contains buffer, enzymes, primers and probe for Internal Control and Internal Control RNA	2 x 900 µl	10 x 900 µl	100 x 900 µl

## Intended use

The virotype Mix +IC(TAMRA)-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  $-30^{\circ}\text{C}$  to  $-15^{\circ}\text{C}$ , 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 ( $>2\times$ ), 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](mailto: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 and procedure

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

The Internal Control RNA is already added to the virotype Mix +IC(TAMRA)-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.

## Things to do before starting

- Thaw the virotype Mix +IC(TAMRA)-RNA on ice and protected from light.
- Before use, spin the mix briefly.

## Preparation of the PCR reaction

- It is recommended to use 18 µl of the virotype Mix +IC(TAMRA)-RNA per 25 µl reaction.

## Filter settings

- The probe detecting the Internal Control is TAMRA™ labeled. This reporter Dye is suitable for use with Applied Biosystem 7500 Real-Time PCR systems. Please check your real-time cyclers for availability of the corresponding detection channel.
- The virotype Mix +IC(TAMRA)-RNA contains a low ROX™ dye concentration as a passive reference dye. This allows the use of instruments like Applied Biosystems™ 7500, ViiA™ 7 and QuantStudio Systems.

## Cycling conditions

<b>Step</b>	<b>Temperature</b>	<b>Time</b>	<b>Number of cycles</b>
<b>Reverse transcription</b>	50°C	10 min	1
<b>Initial activation</b>	95°C	2 min	1
<b>2-step cycling</b>			
Denaturation	95°C	5 s	
Combined annealing/extension	60°C*	30 s	40

\* Fluorescence data collection

# Notes

# Notes

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## Change index

<b>Product Sheet</b>	<b>Version</b>	<b>Change</b>
HB-2203-EN-004	May 2020	Additional product size, name change
HB-2203-003	May 2018	INDICAL design