

# virotype<sup>®</sup> RT/Mix +IC-RNA Product Sheet

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

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480 reactions (cat. no. MX280377)



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# Contents

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<b>virotype RT/Mix +IC-RNA</b>	<b>(480)</b>
<b>Cat. no.</b>	<b>MX280377</b>
<b>Number of reactions</b>	<b>480</b>

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virotype PCR Mix +IC-RNA	
Mix contains buffer, primers, probe and Internal Control RNA	10 x 930 µl

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virotype RT/Mix	
Mix contains buffer and enzymes	5 x 30 µl

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## Intended use

The virotype RT/Mix +IC-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 and procedure

The virotype RT/Mix +IC-RNA provides real-time RT-PCR detection of one nucleic acid target and the heterologous Internal Control using dual-labeled probes.

The Internal Control RNA is already added to the virotype RT/Mix +IC-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 PCR Mix +IC-RNA on ice and protected from light.
- Maintain reagents on ice during PCR setup.
- Remove the RT/Mix from storage at -20°C immediately before use. Keep it on ice. Return it to -20°C immediately after use.
- Before use, spin the mix briefly.

## Preparation of the Master Mix

- It is recommended to use 17.75 µl of the PCR Mix +IC-RNA and 0.25 µl of the virotype RT/Mix per reaction.

## Preparation of the PCR reaction

- It is recommended to use 18 µl of the Master Mix per 25 µl PCR reaction.

## Filter settings

- The probe detecting the Internal Control is HEX™ labeled. Please check your real-time cycler for availability of the corresponding detection channel.
- The virotype RT/Mix +IC-RNA contains ROX™ dye as a passive reference dye. This allows the use on instruments of Applied Biosystems™.

## Cycling conditions

Step	Temperature	Time	Number of cycles
<b>Reverse Transcription</b>	50°C	20 min	1
<b>Initial Activation</b>	95°C	15 min	1
<b>3-step cycling</b>			
Denaturation	95°C	30 s	
Annealing*	57°C	45 s	40
Extension	68°C	45 s	

\* Fluorescence data collection

## Notes

# Notes

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## Change index

Product Sheet	Version	Change
HB-2504-EN-001	October 2018	Product launch