

# TaqMan® Zika Virus Triplex Control Kit

Lyophilized control for multiplex real-time RT-PCR distinction of Zika, Dengue, and Chikungunya virus RNA

Catalog Number A40490

Pub. No. MAN0018149 Rev. A.0



**WARNING!** Read the Safety Data Sheets (SDSs) and follow the handling instructions. Wear appropriate protective eyewear, clothing, and gloves. Safety Data Sheets (SDSs) are available from [thermofisher.com/support](http://thermofisher.com/support).

## Product description

The Applied Biosystems™ TaqMan® Zika Virus Triplex Control Kit (ZIKV/DENV/CHIKV) includes a single foil pouch that contains human DNA at 1X and pooled complete genome RNA template of the following viruses:

- Zika virus with Asian lineage
- Dengue virus from 4 serotypes (DENV1, DENV2, DENV3, and DENV4)
- Chikungunya virus

The control kit is used with the following kits:

- TaqMan® Zika Virus Triplex Kit (ZIKV/DENV/CHIKV) (0.2-mL block) (Cat. No. A31746)
- TaqMan® Zika Virus Triplex Kit (ZIKV/DENV/CHIKV) (0.1-mL block) (Cat. No. A31747)

## Contents and storage

The kit contains lyophilized nucleic acid and reconstitution solution. The lyophilized nucleic acid is in a thermal-sealed foil pouch with silica gel.

Reconstitute the lyophilized nucleic acid before use. See “Reconstitute the lyophilized nucleic acid” on page 2.

Table 1 TaqMan® Zika Virus Triplex Control Kit (Cat. No. A40490, 25 reactions)

Contents	Amount	Storage
Lyophilized nucleic acid: <ul style="list-style-type: none"> <li>• Human DNA at 1X</li> <li>• RNA template of Zika (Asian lineage), Dengue 1–4, and Chikungunya</li> </ul>	1 pouch	<ul style="list-style-type: none"> <li>• 2–8°C in the foil pouch for long-term storage.<sup>[1]</sup></li> <li>• Once the pouch is opened, reconstitute the lyophilized nucleic acid. Store at –90°C to –70°C.<sup>[2]</sup></li> </ul>
Reconstitution solution: Molecular biology grade water (DNase- and RNase-free)	1 vial, 500 µL	<ul style="list-style-type: none"> <li>• 2–8°C.<sup>[1]</sup></li> <li>• See packaging for expiration date.</li> </ul>

<sup>[1]</sup> Product is shipped at ambient temperature. See [thermofisher.com/ambientshipping](http://thermofisher.com/ambientshipping).

<sup>[2]</sup> See “Stability and handling of reagents” on page 1.

## Stability and handling of reagents

- Handle reagents in aseptic conditions to avoid microbial contamination.
- Aliquot the nucleic acid after it has been reconstituted to avoid multiple freeze-thaw cycles.
- Thaw only the amount of nucleic acid that is required for the test.

## Reconstitute the lyophilized nucleic acid

1. Open the foil pouch that contains the lyophilized nucleic acid.
2. Centrifuge the lyophilized nucleic acid for 1 minute at 1,000 × g.
3. Reconstitute to a stock solution:
  - a. Add 25 µL of reconstitution solution to the lyophilized nucleic acid, then mix by pipetting until the nucleic acid is completely reconstituted.

The Zika and Dengue RNA templates will each be at a concentration of 15,000 copies/µL.

The Chikungunya RNA template will be at a concentration of 25,000 copies/µL.
  - b. Vortex for 30 seconds to completely dissolve and homogenize the nucleic acid.
4. Aliquot the stock solution for storage. See “Contents and storage” on page 1 and “Stability and handling of reagents” on page 1.

## Prepare a working solution

Add 1 µL of stock solution to 24 µL of reconstitution solution, then mix by pipetting.

The working solution is a positive control for the TaqMan<sup>®</sup> Zika Virus Triplex Kit.

## Limited product warranty

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For descriptions of symbols on product labels or product documents, go to [thermofisher.com/symbols-definition](http://thermofisher.com/symbols-definition).

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**Revision history:** Pub. No. MAN0018149

Revision	Date	Description
A.0	17 October 2018	New document.

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