

Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

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Lieferung & Zahlungsart

siehe unsere Liefer- und Versandbedingungen

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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Clonit'nGo Mayaro Virus

Detection of the genome of Mayaro Virus using Real Time PCR

IVD	In vitro diagnostic device
[]i	Revision 1 –25 th May 2020
1	Range of temperature
\subseteq	Use within (dd/mm/yyyy: year-month)
LOT	Lot (xxxx)
REF	CLNG-96-75
w.	CLONIT srl Via Lombardia 6 – 27010 Siziano (PV) Via Varese 20 – 20121 Milano (MI)
Σ	96Tests

INTRODUCTION AND PURPOSE OF USE

Clonit'ngo Mayaro Virus is designed for specific identification of Mayaro Virus in clinical samples from patients with signs and symptoms of Mayaro Virus infection. This test is intended for use as an aid in the diagnosis of the Mayaro Virus in combination with clinical and epidemiological risk factors. RNA is extracted from specimens, amplified using RT-PCR and detected using fluorescent reporter dye probes specific for Mayaro Virus.

CONTENT

The kit contains reagents enough to perform 96 amplification tests

	Quantity	Description
R1	12 x 8 well strips	Mayaro Virus 8-well strips
R2	1 vial	Mayaro Virus – positive control
R3	1 vial x 1.8ml	Rehydratation Buffer (Buffer B)
R4	1 vial x 1ml	Negative control (Buffer C)
R5	1 vial x 1ml	Water RNAse/DNAse free (Buffer A)
	12 x 8	8-cap strips

Instructions for Use: ST. CLNG-9675.ENG.1

MATERIALS AND STRUMENTATION REQUIRED BUT NOT SUPPLIED

Disposable latex powder-free gloves or similar material;

Bench microcentrifuge (12,000 - 14,000 rpm);

Micropipettes and Sterile tips with aerosol filter;

Vortex;

Plastic materials (microplate and optical adhesive cover);

Heat block (only for extraction)

INSTRUMENT

Clonit'nGo **Mayaro Virus** is compatible with the following real time PCR instruments:

AriaMx/Aria Dx Real-Time PCR System fornito da Agilent Technologies

7500 Fast supplied from Lifetechnologies (1)

7500Dx Fast supplied from Lifetechnologies (1)

QuantStudio[™]12 Flex supplied from Lifetechnologies

QuantStudio[™]6 Flex supplied from Lifetechnologies

QuantStudioTM7 Flex supplied from Lifetechnologies

QuantStudio[™] 3 Fast supplied from Lifetechnologies

QuantStudio[™] 5 Fast supplied from Lifetechnologies

StepOne Plus™ /StepOne™ supplied from Lifetechnologies (4)

ViiA[™] 7 Fast supplied from Lifetechnologies

Exicycler™ 96 supplied from Lifetechnologies

CFX 96[™] Real Time PCR supplied from BioRad

Mini Opticon[™] supplied from BioRad

SmartCycler® supplied from Cepheid (2)

Rotor-Gene Q MDx[®] supplied from Qiagen (2)

LightCycler ®480 Real-Time PCR System supplied from Roche (3)

LightCycler ®96 Real-Time PCR System supplied from Roche (3)

Cobas z480 Analyzer supplied from Roche (3)

(1) Select Ramp Speed "Standard".

(2)The product should be reconstituted following the appropriate procedure (see Test Procedure) and transferred into the specific Rotor-Gene® Q or SmartCycler® tubes.

(3) Shell Frame grid plate which fits in these Roche qPCR System is necessary.

(4)No detection in Cy5 channel.

Please ensure that the instruments have been installed, calibrated, checked and maintained according to the manufacturer's instruction and recommendations

SAMPLE AND STORAGE

The product Clonit'nGo Mayaro Virus is designed to be used with RNA extracted from biological samples. Perform sample preparation according to the recommendations in the "instructions for use" of the extraction kit used.

PREACAUTION USE

This kit is for in vitro diagnostic (IVD), for professional use only and not for in vivo use.

At all times follow Good Laboratory Practice (GLP) guidelines.

Wear protective clothing such as laboratory coats and disposable gloves while assaying samples.

Avoid any contact between hands and eyes or nose during specimens collection and testing.

Handle and dispose all used materials into appropriate bio-hazard waste containers. It should be discarded according to local law.

Keep separated the extraction and the reagents preparation.

Never pipette solutions by mouth.

Avoid the air bubbles during the master mix dispensing. Eliminate them before starting amplification.

Wash hands carefully after handling samples and reagents.

Do not mix reagents from different lots.

It is not infectious and hazardous for the health (see Material Safety data Sheet – MSDS).

Do not eat, drink or smoke in the area where specimens and kit reagents are handled.

Read carefully the instructions notice before using this test.

Do not use beyond the expiration date which appears on the package label.

Do not use a test from a damaged protective wrapper.

LIMIT OF THE METHOD

The extreme sensitivity of gene amplification may cause false positives due to cross-contamination between samples and controls. Therefore, you should:

- physically separate all the products and reagents used for amplification reactions from those used for other reactions, as well as from post-amplification products;
- use tips with filters to prevent cross-contamination between samples;
- use disposable gloves and change them frequently;
- carefully open test tubes to prevent aerosol formation;
- close every test tube before opening another one.

The proper functioning of the amplification mix depends on the correct collection, correct transportation, correct storage and correct preparation of a biological sample.

As with any diagnostic device, the results obtained with this product must be interpreted taking in

consideration all the clinical data and other laboratory tests done on the patient.

A negative result obtained with this product suggests that the RNA was not detected in nuclei acid extracted from the sample, but it may also contain RNA at a lower title than the detection limit for the product (detection limit for the product, see paragraph on Performance Characteristics); in this case the result would be a false negative.

As with any diagnostic device, with this product there is a residual risk of obtaining invalid, false positives or false negatives results

STORAGE AND STABILITY

The kits can be shipped and stored from 2 to 40 °C until the expiration date which is stated on the label. Once the positive control has been re-suspended, store it at -20 °C. We recommend to separate it in aliquots to minimize freeze and thaw cycles. Keep components away from sunlight.

ANALYTICAL PROCEDURE

RNA EXTRACTION

Perform the sample preparation according to the recommendations appearing in the instructions for use of extraction kit used.

For RNA extraction from blood and serum samples you can use your manually or automatic routine optimized system. Also, you can use any commercially available RNA extraction kit and follow the manufacturer's instructions for use.

POSITIVE CONTROL

Clonit'nGo Mayaro Virus Positive Control contains high copies of the template, the recommendation is to open and manipulate it in a separate laboratory area away from the other components. Reconstitute the lyophilized Positive Control (red vial) by adding 100 µL of the supplied Water RNAse/DNAse free (white vial) and vortex thoroughly.

Once the positive control has been re-suspended, store it at -20°C. We recommend to separate it in aliquots to minimize freeze and thaw cycles.

PRECEDURE

Determine and separate the number of required reactions including samples and controls.

One positive and negative control must be included in each run for each assay.

Peel off protective aluminium seal from plates or strips.

Reconstitute the number of wells you need. Add 15 μL of Rehydration Buffer (blue vial) into each well. Adding 5 µl of RNA extracted for each sample, 5 µl of positive control and 5 µl of negative control in different wells and close them with provided caps.

It is recommended to briefly centrifuge

Load the strips in the thermocycler.

Set up the thermocycler. Program the thermocycler following the conditions listed below and start the run:

SOFTWARE SETTINGS

Set the right thermal cycling:

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Fluorogenic data should be collected during the extension step following the instruction in the table:

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207 116 1		
	405 /540	F33 /F00

Depending on the equipment used select the proper detection channel. In Applied Biosystems 7500 Fast Real-Time PCR System, StepOne Plus™ Real Time PCR System and Stratagene Mx3005P ™ Real Time PCR System check check for information purposes only that passive reference option ROX is none. In the Applied Biosystems 7500 Fast Real-Time PCR System select Ramp Speed Standard in Select New Experiment/Advanced Setup/Experiment Properties.

Reaction Volume: 20 µl

RESULTS INTERPRETATION

The use of positive and negative controls in each run, validate the reaction by checking the absence of signal in the negative control well and the presence of signal for Mayaro Virus in the positive control well. Check Internal Control signal to verify the correct functioning of the amplification mix. The analysis of the samples is done by the

software of the used real time PCR equipment itself according to manufacturer's instructions.

Interpretation of results:

Mayaro Vi- rus (FAM)	Internal Con- trol (HEX)	Negative Con- trol	Positive Con- trol	Interpretation
+	+/-	-	+	Mayaro Virus Positive
-	+	-	+	Mayaro Virus Negative
-	-	-	+	Fail
+	+	+	-	Fail

PERFORMACES

Analytical sensitivity:

For the purposes of this evaluation, the greater dilution (title) to which a positive sample can be diluted without the system losing its ability to detect it as positive is considered analytical sensitivity. Clonit'nGo Mayaro Virus has a detection limit> 10 copies of RNA per reaction.

Analytical specificity:

Test's specificity is guaranteed by the use of specific primers for the target

The alignment of the choose regions for specific primers' hybridization with available sequences of present in database, demonstrated: their conservation and the complete specificity for the analyzed targets.

Crossreactivity

An analysis was also performed on samples positive for other pathogens and the test was performed following the indications reported in the method.

Samples	Results	Samples	Results
Chikungunya virus S27 Petersfield	-	Yellow Fever virus strain 17D	-
Zika Virus strain MR 766	-	Dengue 1 virus strain Hawaii	-
St Louis Encephalitis virus strain 17D	-	Dengue 2 virus strain New Guinea C	-
West Nile virus strain H160/99	-	Dengue 3 virus strain H87	-
West Nile virus Heja	-	Dengue 4 virus strain H241	-
West Nile virus Ug37	-		

INTERFERENCES

Verify that in the RNA extracted from the sample there is no contamination from mucoproteins and haemoglobin, to exclude possible inhibition of PCR reaction. The interference due to contaminants can be detected through a spectrophotometric analysis, verifying the ratio between the absorbance readings at 260 nm (maximum absorbtion of Nucleic Acids) and 280 nm (maximum absorbtion of Proteins). A pure RNA should have a ratio of approximately 2.

QUALITY CONTROL

It is recommended to include in each analytical run, as quality control of every extraction, amplification and detection step, an already tested negative and positive sample, or a reference material with known concentration

In accordance with the Clonit srl ISO EN 13485 Certified quality Management System, each lot of Clonit'nGo Mayaro Virus is tested against predetermined specification to ensure consistent product quality.

TECHNICAL ASSISTANCE

For any question and support please contact our Technical support:

e-mail: info@clonit.it phone: +39 02 56814413

IVD	In vitro diagnostic device
[]i	Read the instruction's manual
1	Range of temperature
\subseteq	Use within (dd/mm/yyyy: year-month)
LOT	Lot (xxxx)
REF	Code
	Manufacturer
Σ	Contains sufficient for <n> tests</n>

Clonit'nGo Mayaro Virus is CE marked diagnostic kit according to the European in vitro diagnostic directive 98/79/CE



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for in vitro diagnostic use