Instructions for use

CMV RNA— ELITe Positive Control

plasmid DNA control for quantitative assay





CTR115ING



UDI 08033891487348





CHANGE HISTORY

| Rev. | Notice of change | | | Date (dd/ mm/yy) | |
|-----------|---|-------------------|-------------|---------------------|--|
| 03 | Expansion of use with ELITe BeGenius New graphics and content setting of the IFU. | | | 29/11/24 | |
| 02 | Update for compliance with the Regulation (EU) 2017/746 on in vitro diagnostic medical devices (IVDR) requirements. | | | | |
| | NOTE | | | | |
| | The lot number shown in the table below, and still on the market as Research Use Only (RUO), will not be recalled. This product can be used as per its expiration date below indicated. If you have this lot, please, use it according to the intended use described in the RUO IFU and only in association with related RTS115ING product (in RUO format as well). Please, contact ELITechGroup staff to obtain RUO IFU. | | | | |
| | PRODUCT REF. | <u>Lot Number</u> | Expiry date | 03/06/24 | |
| | CTR115ING | U0524-037 | 31/05/2026 | | |
| | Do not use the new CTR115ING product commercialized as CE-IVDR in association with related RTS115ING product still in RUO format The use of the new CTR115ING product commercialized as CE-IVDR requires the use of the related CE-IVD Assay Protocols. Please, contact ELITechGroup staff for any additional information needed. | | | | |
| 00- 01 | new product development and subsequent changes | | | | |

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1 INTENDED USE

The product CMV RNA— ELITe Positive Control is an *in vitro* diagnostic medical device intended to be used by healthcare professionals as a known quantity DNA positive control in nucleic acids reverse transcription and Real-Time PCR assays for the detection and quantification of the human Cytomegalovirus virion mRNA (CMV RNA) in association with CMV RNA ELITE MGB® Kit and the ELITe InGenius® and ELITe BeGenius® instruments.

2 PRODUCT DESCRIPTION

The product supplies the **CMV RNA Positive Control**, plasmid DNA at known titre in a stabilizing solution based on Tris-HCl and EDTA, aliquoted into **three ready - to use test tubes**.

The plasmid DNA contains the spliced region of **UL21.5 CMV mRNA**. The detection and quantification of the CMV RNA, using **CMV RNA ELITE MGB Kit** product in association with **ELITE InGenius** and **ELITE BeGenius** instruments, attests the system ability to detect the RNA of the target gene and consequently the verification of the system (product batch and instrument).

The product contains sufficient reagents for 12 separate sessions on ELITe InGenius and ELITe BeGenius, (4 sessions each tube), with 20 μ L used per reaction.

NOTE

The plasmid DNAs concentration in copies / mL was determined through absorbance measurement by spectro-photometer. There are no WHO approved standards for the virion mRNA of CMV.

3 MATERIALS PROVIDED IN THE PRODUCT

Table 1

| Component | Description | Quantity | Classification of Hazards |
|---|---|------------|------------------------------|
| CMV RNA Positive Control ref. CTR115ING | plasmid DNA solution in tube with black cap | 3 x 160 µL | - |

4 MATERIALS REQUIRED BUT NOT PROVIDED IN THE PRODUCT

- · Laminar airflow hood.
- · Disposable powderless nitrile gloves or similar material.
- · Vortex mixer.
- Bench microcentrifuge (~13,000 RPM).
- Micropipettes and sterile tips with aerosol filter or sterile positive displacement tips (2-20 μ L, 5-50 μ L, 50-200 μ L).
- · Molecular biology grade water.

5 OTHER PRODUCTS REQUIRED

The reagents for the reverse transcription and Real-Time amplification and the consumables **are not** included in this product.

To perform the assay the following products are required:

Table 2

| Instruments and softwares | Products and reagents |
|--|---|
| ELITe InGenius (ELITechGroup S.p.A., EG SpA, ref. INT030) ELITe InGenius Software version 1.3.0.19 (or later) CMVRNA ELITe_PC, Assay Protocol with parameters for Positive Control analysis. | CMV RNA ELITe MGB Kit (EG SpA, ref. RTS115ING) ELITe InGenius PCR Cassette (EG SpA, ref. INT035PCR) ELITe InGenius Waste Box (EG SpA, ref. F2102-000) 300 µL Filter Tips Axygen (Corning Life Sciences Inc., ref. TF- |
| ELITe BeGenius (EG SpA, ref. INT040) ELITe BeGenius Software version 2.2.1 (or later) CMVRNA ELITe_Be _PC, Assay Protocol with parameters for Positive Control analysis. | 350-L-R-S) with ELITe InGenius only 1000 µL Filter Tips Tecan (Tecan, Switzerland, ref. 301801 with ELITe BeGenius only |

6 WARNINGS AND PRECAUTIONS

This product is designed for in-vitro use only.

6.1 General warnings and precautions

- Handle and dispose of all reagents and all materials used to carry out the assay as if they were infectious.
 Avoid direct contact with the reagents. Avoid splashing or spraying. Waste must be handled and disposed of in
 compliance with adequate safety standards. Disposable combustible material must be incinerated. Liquid
 waste containing acids or bases must be neutralized before disposal.
- Wear suitable protective clothes and gloves and protect eyes and face.
- · Never pipette solutions by mouth.
- Do not eat, drink, smoke or apply cosmetic products in the work areas.
- · Carefully wash hands after handling samples and reagents.
- · Dispose of leftover reagents and waste in compliance with the regulations in force.
- · Carefully read all the instructions provided before running the assay.
- While running the assay, follow the product instructions provided.
- Do not use the product after the indicated expiry date.
- Only use the reagents provided with the product and those recommended by the manufacturer.
- · Do not use reagents from different batches.
- · Do not use reagents from other manufacturers.

6.2 Warnings and precautions for molecular biology

Molecular biology procedures require qualified and trained staff to avoid the risk of erroneous results, especially due to sample nucleic acids degradation or sample contamination by PCR products.

Laboratory coats, gloves and tools dedicated to work session setup are needed.

The reagents must be handled under a laminar airflow hood. The pipettes used to handle the reagents must be exclusively used for this purpose. The pipettes must be of the positive displacement type or be used with aerosol filter tips. The tips used must be sterile, free from DNases and RNases, and free from DNA and RNA.

The PCR Cassette must be handled carefully and never opened to avoid PCR product diffusion into the environment and sample and reagent contamination.

6.3 Warnings and precautions specific for the components

Table 3

| Component | Storage temperature | Use from first opening | Freeze / thaw cycles | On board stability (ELITe InGenius and ELITe BeGenius) |
|-----------------------------|------------------------|------------------------|----------------------|--|
| CMV RNA Positive Control | -20°C or below | one month | up to four | up to four separate sessions* of three hours each |

^{*} with intermediate freezing.

7 PROCEDURE

The product CMV RNA— ELITe Positive Control must be used in association with the product CMV RNA ELITE MGB Kit.

The component CMV RNA Positive Control is ready to use: a volume of 20 µL is directly added to the complete reaction mixture (CMV RNA PCR Mix and RT-EnzymeMix, components of CMV RNA ELITE MGB Kit) by the instrument.

Before use, take and thaw the **CMV RNA Positive Control** tube at room temperature (+16 / +26 °C) for 30 minutes. Mix gently, spin down the content for 5 seconds and keep it on ice or in a cool block.

The complete assay procedure is described in detail in the instructions for use of the product **CMV RNA ELITE MGB Kit**.

The performance characteristics and procedure limitations of the complete assay are described in detail in the instructions for use of the product **CMV RNA ELITE MGB Kit**.

NOTE

The results of Positive Control will be stored by the **ELITe InGenius** and **ELITe BeGenius** instruments and used to set up the Control Charts monitoring the amplification step performances. For each batch of the product **CMV RNA ELITE MGB Kit**, the amplification of Positive Control is required. The stored results of the Positive Control amplification will expire **after 15 days**

8 REFERENCES

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9 SYMBOLS

REF Catalogue Number.

Upper limit of temperature.

LOT Batch code.

Use by (last day of month).

in vitro diagnostic medical device.

Fulfilling the requirements of the IVDR Regulation 2017/746/EC for *in vitro* diagnostic medical device. Certification released by TÜV SÜD Product Service GmbH, Germany.

UDI Unique Device Identification

Contains sufficient for "N" tests.

Consult instructions for use.

CONT Contents.

Manufacturer.

10 NOTICE TO THE USERS

Any serious incident that has occurred in relation to the device shall be reported to the manufacturer and the competent authority of the Member State in which the user and /or the patient is established. At the moment of the current revision of the IFU, no serious incident or recall with impact on product performance and safety of the device has occurred.

A "Summary of Safety and Performance" will be made available to the public via the European database on medical devices (Eudamed) when this informatic system will be functional. Before the notice of full functionality of Eudamed has been published, the "Summary of Safety and Performance" will be made available to the public upon request by email at emd.support@elitechgroup.com, without undue delay.

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