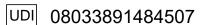
Instructions for use

JCV — **ELITe Positive Control**

plasmid DNA control for quantitative assay











CHANGE HISTORY

Revision	Notice of change	Date (dd/mm/yy)
09-R	Update for compliance with the Regulation (EU) 2017/746 on in vitro diagnostic medical devices (IVDR) requirements. Update of the Intended use:	25/03/25
08	New graphics and content setting of the IFU	13/11/24
07	Extended use of the product in association with «ELITe BeGenius®» instrument (REF INT040) .	23/06/22
00–06	New product development and subsequent changes	-

NOTE

The product batches identified by the following LOT numbers are still placed on the market as per IVDD till to their expiration dates, according to Article 110 of IVDR. If you have those product batches, please contact ELIT-echGroup staff to request the related previous revision of IFUs

Those batches of Positive Control are technically compatible with the new IVDR version of the amplification kit and can be used, until exhausted, in association with the new IVDR version of the amplification kit and in accordance with its intended use.

PRODUCT REF.	<u>Lot Number</u>	Expiry date
CTR176ING	U0923-032	30/09/2025
CTR176ING	U0924-026	30/09/2026
CTR176ING	U0325-003	31/03/2027

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1 INTENDED USE

The product JCV - 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 Real-Time PCR assays for the detection and quantification of the DNA of Human Polyomavirus JC (JCV) in association with JCV ELITe MGB® Kit product and the ELITe InGenius® and ELITe BeGenius® instruments.

2 PRODUCT DESCRIPTION

The product supplies the **JCV** — **Positive Control**, plasmid DNA at known titre in a stabilizing solution based on Tris-HCl and EDTA, aliquoted into **one ready- to use test tube**.

The plasmid DNA contains the Large T antigen region of the JCV gene. The detection and quantification of target DNA, using JCV ELITE MGB Kit product in association with ELITe InGenius and ELITe BeGenius instruments, attests the system ability to detect the DNA of the target gene and consequently the verification of the system (product batch and instrument).

The product contains sufficient reagents for **4 separate sessions** on **ELITe InGenius** and **ELITe BeGenius**, with 10 µL used per reaction.

NOTE

The titre was determined by spectrophotometer by absorbance measurement of the plasmidic DNA preparation. This standard DNA was related to the "1st WHO International Standard for JC Virus DNA" (NIBSC, code 14/114, United Kingdom) with a conversion factor to International Unit as reported in instruction for use of the **JCV ELITE MGB Kit** product.

3 MATERIALS PROVIDED IN THE PRODUCT

Table 1

Components	Description	Quantity	Classification of Hazards
JCV — Positive Control ref. CTR176PLD	plasmid DNA solution in tube with black cap	1 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 (0.5-10 μL, 2-20 μL, 5-50 μL, 50-200 μL, 200-1000 μL).
- 2.0 mL sterile screw capped tubes (Sarstedt, Germany, ref. 72.694.005)
- Molecular biology grade water.

5 OTHER PRODUCTS REQUIRED

The reagents for Real-Time PCR reaction 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) JCV ELITe_PC, Assay Protocol with parameters for Positive Control analysis.	JCV ELITe MGB Kit (EG SpA, code RTS176PLD)) 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) JCV 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. 30180 with ELITe ReGenius 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)
JCV 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 JCV — ELITe Positive Control must be used in association with the product JCV ELITe MGB Kit.

The component JCV Positive Control is ready to use: a volume of $10 \,\mu\text{L}$ is directly added to the reaction mixture (JCV PCR Mix, component of JCV ELITe MGB Kit) by the instrument ELITe InGenius or ELITe BeGenius, or manually when other instruments are used.

Before use, take and thaw the **JCV Positive Control** tube at room temperature $(+16 / +26 ^{\circ}\text{C})$ for 30 minutes. Mix gently, spin down the content for 5 seconds and keep them on ice or in a cool block.

The complete assay procedure is described in detail in the instructions for use of the product JCV 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 JCV ELITe MGB Kit.

NOTE

The results of the **JCV** — **ELITe 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 JCV 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

P. Ferrante et al. (1995) J Med Vir 47: 219 - 225

9 SYMBOLS

REF Catalogue Number. Upper limit of temperature. LOT Batch code. Use by (last day of month). IVD 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. 0123 UDI Unique Device Identification Contains sufficient for "N" tests. Consult instructions for use. 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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