Instructions for use

C. difficile - ELITe Positive Control

plasmid DNA control for qualitative assay



REF

M800373



UDI 08033891486570

CHANGE HISTORY

Rev.	Notice of change	Date (dd/mm/yyy)
05	Expansion of use with ELITe BeGenius New graphics and content setting of the IFU.	22/11/24
04	New Packaging.	10/05/19
00–03	new document and succeeding changes	-
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NOTE

The revision of this IFU is also compatible with the previous versions of the kit

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1 INTENDED USE

The product *C. difficile* - ELITe Positive Control is an *in vitro* diagnostic medical device intended to be used by healthcare professionals as a DNA positive control in nucleic acids Real Time PCR assay for the detection and identification of the DNA of toxin A and toxin B genes of toxigenic *Clostridium difficile* (*C. difficile*) in association with *C. difficile* ELITe MGB[®] Kit and ELITe InGenius[®], ELITe BeGenius[®] and 7500 Fast Dx Real-Time PCR instruments.

2 **PRODUCT DESCRIPTION**

The product supplies the *C. difficile* **Positive Control** plasmid DNAs at known titre in a stabilizing solution based on Tris-HCI and EDTA, aliquoted into two ready-to-use test tubes.

The plasmid DNAs contain regions of *C. difficile*-specific toxin A and toxin B genes. The detection of the targets DNAs using *C. difficile* ELITe MGB Kit attests the system ability to detect the DNA of the target genes and consequently the verification of the system (product batch and instrument).

The product contains sufficient reagents for **8 separate sessions** on **ELITe InGenius** and **ELITe BeGenius** and **16 separate analytic sessions** in association with other systems, by using 10 μ L per reaction.

NOTE

The plasmid DNAs concentration in copies / mL was determined through absorbance measurement by spectrophotometer. There are no WHO approved standards for the target genomic DNAs.

3 MATERIALS PROVIDED IN THE PRODUCT

Table 1

Component	Description	Quantity	Classification of Hazards
<i>C. difficile</i> Positive Control ref. M800373	plasmid DNAs solution in tube with RED cap	2 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 $\mu L,$ 5-50 $\mu L,$ 50-200 $\mu L).$
- Molecular biology grade water.

5 OTHER PRODUCTS REQUIRED

The reagents for Real-Time amplification 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) Cdiff_ELITe_PC, Assay Protocol with parameters for Positive Control analysis. ELITe BeGenius (EG SpA, ref. INT040) ELITe BeGenius Software version 2.2.1. (or later) Cdiff_ELITe_Be _PC, Assay Protocol with parameters for Positive Control analysis. 	 C. difficile ELITe MGB Kit (EG SpA, ref. M800358) 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- 350-L-R-S) with ELITe InGenius only 1000 μL Filter Tips Tecan (Tecan, Switzerland, ref. 30180118) with ELITe BeGenius only 	
7500 Fast Dx Real-Time PCR Instrument (ThermoFisher Scientific, ref. 4406985)	C. difficile ELITe MGB Kit (EG SpA, ref. M800358) MicroAmp™ Fast Optical 96-Well Reaction Plate with Barcode, 0.1 mL (Life Technologies, ref. 4346906)	

6 WARNINGS AND PRECAUTIONS

This product is designed for in vitro use only.

6.1 Warnings and general 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 sample nucleic acids degradation or sample contamination by PCR products.

When amplification session is manually setup, it is necessary to have available separate areas for the extraction / preparation of amplification reactions and for the amplification / detection of amplification products. Never introduce an amplification product in the area designated for extraction / preparation of amplification reactions.

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, 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)
<i>C. difficile</i> Positive Control	-20°C or below	one month	up to nine	up to four separate sessions* of three hours each

*with intermediate freezing

7 PROCEDURE

The product *C. difficile* - ELITe Positive Control must be used in association with the product *C. difficile* ELITe MGB Kit.

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

Before use, take and thaw the *C. difficile* Positive Control tube at room temperature $(+16 / +26^{\circ} C)$ 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 *C. difficile* 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 *C. difficile* ELITe MGB Kit.

NOTE

The results of the *C. difficile* - 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 *C. difficile* 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**

Cloud J. and Kelly C. P. (2007) Cur. Opin. Gastroenterology 23: 4 - 9.

Cohen, S. H. et al. (1998) Clin. Infect. Diseases 26: 410 - 412.

Kuijper, E. J. et al. (2006) Clin. Microb. and Infection 12: 2 - 18.

9 SYMBOLS



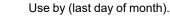
Upper limit of temperature.

LOT

 Σ

IVD

Batch code.



in vitro diagnostic medical device.



Fulfilling the requirements of the European Directive 98\79\EC for in vitro diagnostic medical device.



Unique Device Identification



Contains sufficient for "N" tests.



Caution, consult instructions for use.





Contents.

Manufacturer.

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