Instructions for use

Meningitis Bacterial- ELITe Positive Control

plasmid DNA control for qualitative assay





CTR300ING



UDI 08033891486488





REF CTR300ING

CHANGE HISTORY

Rev.	Notice of change	Date (dd/ mm/yy)
01	Expansion of use of the product in association with ELITe BeGenius instrument (REF INT040) New graphics and content setting of the IFU.	20/01/25
00	new product development	28/11/18

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

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1 INTENDED USE

The product **Meningitis Bacterial - ELITe Positive Control** is an *in vitro* diagnostic medical device intended to be used by healthcare professionals as DNA positive control in nucleic acids Real-Time PCR assay for the detection and identification of the genomic DNA of *Neisseria meningitidis*, *Streptococcus pneumoniae*, *Haemophilus influenzae* and *Haemophilus influenzae* type B in association with **Meningitis Bacterial ELITe MGB® Kit** and the **ELITe InGenius®** and **ELITe BeGenius®** instruments.

2 PRODUCT DESCRIPTION

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

The plasmid DNAs contain regions of the following genes: ctrA for Neisseria meningitidis, lytA for Streptococcus pneumoniae, fucK for Haemophilus influenzae and bcsB for Haemophilus influenzae type B. The detection of target DNAs, using Meningitis Bacterial ELITe MGB Kit product in association with ELITe InGenius and ELITe BeGenius instruments, 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 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 spectrophotometer.

3 MATERIALS PROVIDED IN THE PRODUCT

Table 1

Component	Description	Quantity	Classification of Hazards
MB Positive Control	plasmid DNAs solution in tube	3 x 160 µL	
ref. CTR300ING	with black cap	3 X 100 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 μL, 5-50 μL, 50-200 μL).
- Molecular biology grade water.

5 OTHER PRODUCTS REQUIRED

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

To perform the assay the following products are required:

Table 2

Instrument and software	Product and reagents		
ELITe InGenius (ELITechGroup S.p.A., EG SpA, ref. INT030) ELITe InGenius Software version 1.3.0.19 (or later) MB ELITe_PC, Assay Protocol with parameters for Positive Control analysis.	Meningitis Bacterial ELITe MGB Kit product (EG SpA, re RTS300ING) ELITe InGenius PCR Cassette (EG SpA, ref. INT035PCR) 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		
ELITe BeGenius (EG SpA, ref. INT040) ELITe BeGenius Software version 2.2.1 (or later) MB ELITe_Be_PC, Assay Protocol with parameters for Positive Control analysis.			

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 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)
MB 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 **Meningitis Bacterial - ELITe Positive Control** must be used in association with the product **Meningitis Bacterial ELITe MGB Kit**.

The component **MB Positive Control** is ready to use: a volume of **20 μL** is directly added to the reaction mixture (**MB PCR Mix**, component of **Meningitis Bacterial ELITE MGB Kit**) by the instrument.

Before use, take and thaw the **MB 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 **Meningitis Bacterial 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 **Meningitis Bacterial 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 **Meningitis Bacterial 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

- F. Takenori Higa et al. (2013) Mem. Inst. Oswaldo Cruz 108: 246-247
- D. Llull et al. (2006) Journal Of Clinical Microbiology 44: 1250-1256
- D. Wroblewski et al. (2013) Molecular and Cellular Probes 27: 86-89
- K. L. Meyler et al. (2012) Diagnostic Microbiology and Infectious Disease 74: 356-362
- E. A. Lukhtanov et al. (2007) Nucleic Acids Res. 35: e30

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 European Directive 98\79\EC for in vitro diagnostic medical device.



Unique Device Identification



Contains sufficient for "N" tests.



Consult instructions for use.



Contents.



Manufacturer.