

Instructions for use

Pneumocystis — ELITE Positive Control

plasmid DNA control for quantitative assay



REF CTR150ING

UDI 08033891486730



CHANGE HISTORY

Revision	Notice of change	Date (dd/mm/yyyy)
03	Update of the paragraph "Other product required". Update of the paragraph "Notice to the users". Update of the paragraph "Warnings and precautions". Update of the paragraph "Symbols" with the symbol "Consult instructions for use"	09/09/2025
02	New graphics and content setting of the IFU	25/07/2024
01	Update for the use of the product in association with «ELITe BeGenius®» instrument (REF INT040)	15/05/2023
00	New product development	09/11//2019

NOTE

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

TABLE OF CONTENT

1 INTENDED USE 4

2 PRODUCT DESCRIPTION 4

3 MATERIALS PROVIDED IN THE PRODUCT 4

4 MATERIALS REQUIRED BUT NOT PROVIDED IN THE PRODUCT..... 4

5 OTHER PRODUCTS REQUIRED..... 4

6 WARNINGS AND PRECAUTIONS 5

7 PROCEDURE..... 6

8 REFERENCES..... 6

9 SYMBOLS 7

10 NOTICE TO THE USERS..... 7

1 INTENDED USE

The product **Pneumocystis — ELITe Positive Control** is an *in vitro* diagnostic medical device intended to be used by healthcare professionals as known quantity DNA positive control in nucleic acids Real-Time PCR assays for the detection and quantification of the genomic **DNA of *Pneumocystis jirovecii* (PJ)**, in association with **Pneumocystis ELITe MGB® Kit** product and the **ELITe InGenius®** and **ELITe BeGenius®** instruments.

2 PRODUCT DESCRIPTION

The product supplies the **PJ 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 a region of **mtLSU** gene of PJ. The detection and quantification of target DNA using **Pneumocystis ELITe MGB Kit** product in association with the **ELITe InGenius** and the **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**, with 20 µL used 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 Hazard
PJ Positive Control ref. CTR150ING	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 (volume range: 0.5-1000 µL).

5 OTHER PRODUCTS REQUIRED

The reagents for Real-Time PCR 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) PJ ELITe_PC , Assay Protocol with parameters for Positive Control analysis.	Pneumocystis ELITe MGB Kit (EG SpA, ref. RTS150ING) ELITe InGenius and ELITe BeGenius Consumables (see ELITe InGenius and ELITe BeGenius Instruction for Use)
ELITe BeGenius (EG SpA, ref. INT040) ELITe BeGenius Software version 2.3.0 (or later) PJ 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 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 PCR Cassette must be handled carefully and never opened to prevent PCR product diffusion and carryover 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)
PJ 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 **Pneumocystis — ELITE Positive Control** must be used in association with the product **Pneumocystis ELITE MGB Kit**.

The component **PJ Positive Control** is ready to use: a volume of **20 µL** is directly added to the reaction mixture (**PJ PCR Mix**, component of **Pneumocystis ELITE MGB Kit**) by the instrument ELITE InGenius or ELITE BeGenius.

Before use, take and thaw the **PJ 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 **Pneumocystis 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 **Pneumocystis ELITE MGB Kit**.

NOTE

The results of the **Pneumocystis — 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 **Pneumocystis 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

C. Valero et al. (2016) *Front. Microbiol.* 7:1413

M. Maillet et al. (2014) *Eur J Clin Microbiol Infect Dis.* 33(3):331-6

9 SYMBOLS



Catalogue Number.



Upper limit of temperature.



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.

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. To inform ELITechGroup S. p. A., manufacturer of this device, please use the following mail address: egspa.vigilance@elitechgroup.com.

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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