



## GI Norovirus PLUS - ELITE Positive Control

plasmid DNA control for qualitative assay

REF CTR500ING

UDI 08033891487607



### TABLE OF CONTENTS

INTENDED USE	page 1
PRODUCT DESCRIPTION	page 1
MATERIALS PROVIDED IN THE PRODUCT	page 2
MATERIALS REQUIRED BUT NOT PROVIDED IN THE PRODUCT	page 2
OTHER PRODUCTS REQUIRED	page 2
WARNINGS AND PRECAUTIONS	page 2
PROCEDURE	page 3
REFERENCES	page 4
SYMBOLS	page 4
NOTICE TO THE USERS	page 4

### INTENDED USE

The product **GI Norovirus PLUS - ELITE Positive Control** is an in vitro diagnostic medical device intended to be used by healthcare professionals as DNA positive control in nucleic acids reverse transcription and Real-Time PCR assay for the detection and identification of the genomic RNA of *Norovirus*, in association with **GI Norovirus PLUS ELITE MGB® Kit** and the **ELITE InGenius®** and **ELITE BeGenius®** instruments.

### PRODUCT DESCRIPTION

The product supplies the **GI-NV 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 the region of the polyprotein gene for Norovirus genogroup GII. The detection of target DNA, using **GI Norovirus PLUS 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 10 µL used per reaction.

### GI Norovirus PLUS - ELITE Positive Control plasmid DNA control for qualitative assay

REF CTR500ING

**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 DNA.

### MATERIALS PROVIDED IN THE PRODUCT

Component	Description	Quantity	Classification of Hazards
GI-NV Positive Control ref. CTR500ING	plasmid DNA solution in tube with black cap	3 x 160 µL	-

### 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.

### 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:

Instruments and softwares	Products and reagents
<b>ELITE InGenius</b> (ELITechGroup S.p.A., EG SpA, ref. INT030)	<b>GI Norovirus PLUS ELITE MGB Kit</b> product (EG SpA, ref. RTS500ING)
<b>ELITE InGenius Software</b> version 1.3.0.19 (or later)	<b>ELITE InGenius PCR Cassette</b> (EG SpA, ref. INT035PCR)
<b>GI Norovirus PLUS ELITE_PC</b> , Assay Protocol with parameters for Positive Control analysis	<b>300 µL Filter Tips Axygen</b> (Corning Life Sciences Inc., ref. TF-350-L-R-S) with ELITE InGenius only
<b>ELITE BeGenius</b> (EG SpA, ref. INT040)	<b>1000 µL Filter Tips Tecan</b> (Tecan, Switzerland, ref. 30180118) with ELITE BeGenius only
<b>ELITE BeGenius Software</b> version 2.2.1 (or later)	<b>ELITE InGenius Waste Box</b> (EG SpA, ref. F2102-000)
<b>GI Norovirus PLUS ELITE_Be_PC</b> , Assay Protocol with parameters for Positive Control analysis	

### WARNINGS AND PRECAUTIONS

This product is designed for *in vitro* use only.

#### 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.

**GI Norovirus PLUS - ELITE Positive Control**  
plasmid DNA control for qualitative assay

REF CTR500ING

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.

**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.

**Warnings and precautions specific for the components**

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

\* with intermediate freezing

**PROCEDURE**

The product **GI Norovirus PLUS - ELITE Positive Control** must be used in association with the product **GI Norovirus PLUS ELITE MGB Kit**.

The component **GI-NV Positive Control** is ready to use: a volume of **10 µL** is directly added to the complete reaction mixture (**GI NV-PCR Mix** and **RT-EnzymeMix**, components of **GI Norovirus PLUS ELITE MGB Kit**) by the instrument.

Before use, take and thaw the **GI-NV 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 **GI Norovirus PLUS 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 **GI Norovirus PLUS ELITE MGB Kit**.

**Note:** The results of Positive Control will be stored by the **ELITE InGenius** and **ELITE BeGenius** instruments and used to setup the Control Charts monitoring the amplification step performances. For each batch of the product **GI Norovirus PLUS ELITE MGB Kit** the amplification of Positive Control is required. The stored results of the Positive Control amplification will expire **after 15 days**.







**GI Norovirus PLUS - ELITE Positive Control**  
plasmid DNA control for qualitative assay

REF CTR500ING

**REFERENCES**

V. P. Ramanan et al. (2017) *Diagn. Microbiol. Infect. Dis.* 87: 325-327  
Lukhtanov et al. (2007) *Nucleic Acids Res.* 35: e 30  
K. Linnet et al. (2004) *Clin. Chem.* 50: 732 - 740.  
P. Chhabra et al. (2019) *J. Gen. Virol.* 100: 1393 - 1406  
K. Kumthip et al. (2019) *Ann Res Hosp* 3: 1 - 3  
B. Lopman et al. (2015) *CDC Review*: 1-44

**SYMBOLS**

REF	Catalogue Number.
	Upper limit of temperature.
LOT	Batch code.
	Use by (last day of month).
IVD	<i>in vitro</i> diagnostic medical device
	Fulfilling the requirements of the IVDR Regulation 2017/746/EC for <i>in vitro</i> diagnostic medical device. Certification released by TÜV SÜD Product Service GmbH, Germany.
UDI	Unique Device Identification
	Contains sufficient for "N" tests.
	Caution, consult instructions for use.
CONT	Contents.
	Manufacturer.

**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.

The ELITE MGB® logo, the ELITE InGenius® and ELITE BeGenius® are registered trademarks of ELITEchGroup within the European Union.