

ELITE InGenius



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NOTICE of CHANGE dated 13/07/2026

IMPORTANT COMMUNICATION FOR THE USERS OF PRODUCT:

«ELITE InGenius® SP 1000» Ref. INT033SP1000

This new revision of the Instruction for Use (IFU) contains the following changes:

- *Update of Warnings and Troubleshooting*

Composition, use and performance of the product remain unchanged.

PLEASE NOTE



LA REVISIONE DI QUESTO IFU E' COMPATIBILE ANCHE CON LA VERSIONE PRECEDENTE DEL KIT



THE REVIEW OF THIS IFU IS ALSO COMPATIBLE WITH THE PREVIOUS VERSION OF THE KIT



CET IFU MIS A JOUR ANNULE ET REMPLACE ET EST PARFAITEMENT COMPATIBLE AVEC LA VERSION PRECEDENTE DU KIT



LA REVISIÓN DE ESTE IFU ES COMPATIBLE TAMBIÉN CON LA VERSIÓN ANTERIOR DEL KIT



A REVISÃO DO ESTE IFU ÉTAMBÉM COMPATÍVEL COM A VERSÃO ANTERIOR DO KIT



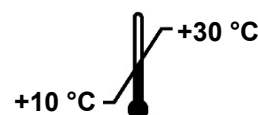
DIE REVIEW VON DIESER IFU IST KOMPATIBLE MIT DER VORIGE VERSION VON DEM TEST-KIT



ELITE InGenius® SP 1000

reagents for Nucleic Acid Extraction

REF INT033SP1000



UDI 03661540900068

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INTENDED USE

The «**ELITE InGenius® SP 1000**» is a cartridge ready-to-use containing reagents for extraction and purification of nucleic acids (NA) from a single sample.

«**ELITE InGenius® SP 1000**» (ELITechGroup S.p.A., ref. INT033SP1000) is used in association with the «**ELITE InGenius®**» (ELITechGroup S.p.A., ref. INT030) and «**ELITE BeGenius®**» (ELITechGroup S.p.A., ref. INT040) instruments and constitutes, together with ELITechGroup Real Time PCR assays, the «**ELITE InGenius®**» and «**ELITE BeGenius®**» systems, fully automated molecular diagnostic systems performing NA extraction, purification, amplification, detection, and results interpretation.

The nucleic acid (NA) isolation protocol is based on magnetic beads and designed for automated preparation of highly pure DNA (human, bacterial, viral, and fungal) and viral RNA from human serum, plasma collected in EDTA or citric acid, respiratory samples.

«**ELITE InGenius SP 1000**» does not provide diagnostic results by itself. To obtain diagnostic results, this product must be used with a NA amplification assay and **ELITE InGenius** or **ELITE BeGenius** instruments. The **ELITE InGenius** and **ELITE BeGenius** instruments are intended to perform Real Time PCR after NA extraction.

This product is intended for use by professionals such as technicians, physicians and biologists trained in molecular biology techniques. It can be used with downstream assays based on Nucleic Acid Amplification Technologies (NAT assay). The use of this product in association with any downstream diagnostic assay must be validated. Any diagnostic results generated using the extracted nucleic acids in association with any downstream diagnostic assay should be interpreted taking into account other clinical or laboratory findings. Adequate controls for downstream assays should be used in order to mitigate risk of incorrect diagnostic results.

ASSAY PRINCIPLES

The «**ELITE InGenius SP 1000**» is the reagent set for automated DNA and RNA extraction and purification from fresh or frozen non-cellular fluid samples in association with the «**ELITE InGenius**» and «**ELITE BeGenius**». The reagent set has been optimized for the isolation of nucleic acids from 600 µL or 1 mL samples. The resulting nucleic acid extracted is then available for Real Time PCR application with «**ELITE InGenius**» and «**ELITE BeGenius**».

The NA isolation process is based on the Magtration® Technology, an automated extraction technology based on magnetic beads.

The sample is lysed with a lysis solution and proteinase K, Carrier solution and an Internal Control template.

After removal of proteins and other biological substances, the NA adsorb on to magnetic beads covered with a hydrophilic surface.

The unabsorbed materials are removed by magnetic bead separation followed by several washing steps. Finally, purified NA is eluted in distilled water, as shown in Figure A below.

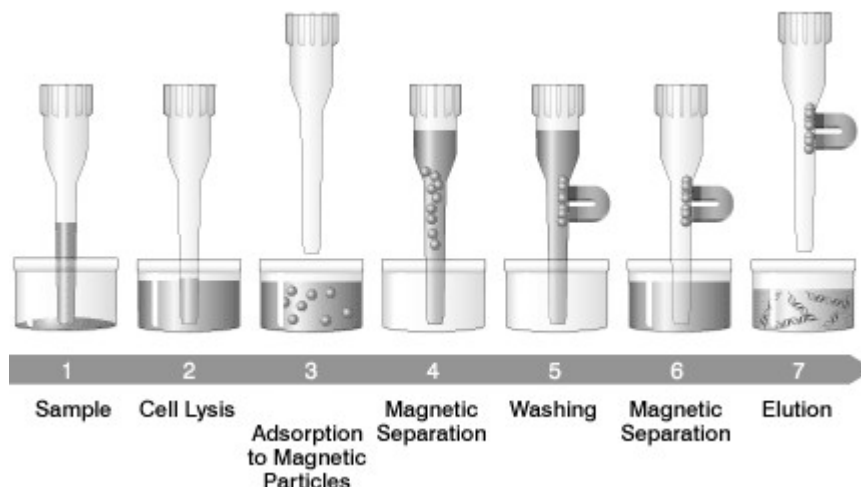


Figure A: Extraction Workflow

The «**ELITE InGenius**» and «**ELITE BeGenius**» automatically perform sample dispensing from extraction tubes. The NA purification procedure is carried out without user involvement, except the initial loading of the instrument, thus allowing safe handling of potentially infectious samples. Sample cross-contamination and reagent cross-over is effectively reduced.

The resulting highly purified nucleic acids are eluted with distilled water. The extraction process on 12 samples takes approximately 35 minutes.

The purified nucleic acids are ready to use for downstream assays based on Real Time PCR. Otherwise, the purified nucleic acids can be stored at -20 °C or -70 °C for subsequent use.

The kit provides reagents for **48 extractions** (e.g., 4 runs x 12 samples).

Note:

The minimum number of samples to be processed per run with the «**ELITE InGenius**» is 1, the maximum number is 12.

The minimum number of samples to be processed per run with the «**ELITE BeGenius**» is 1, the maximum number

is 24.

MATERIALS PROVIDED

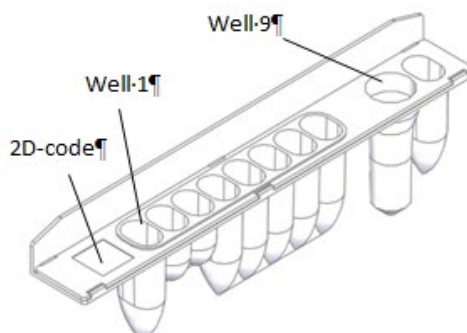


Figure B: Nucleic Acid Extraction Cartridge

The kit contains 48 unitary prefilled Nucleic Acid extraction cartridges.

Each Nucleic acid extraction cartridge contains:

Well No.	Reagent name	Quantity	H-phrases, P phrases
1	Binding buffer	1300 µL	H225, H319, H336 P210, P261, P264, P280, P312, P403+P223
2	PK solution	80 µL	H334 P264, P280, P312, P342+P311, P362+P364, P403+P233
3	Carrier solution	80 µL	-
4	Magnetic particles	200 µL	-
5	Binding buffer	650 µL	H225, H319, H336 P210, P261, P264, P280, P312, P403+P223
6	Wash buffer 1	1200 µL	H225, H319, H336 P210, P261, P264, P280, P312, P403+P223
7	Wash buffer 2	700 µL	H225, H319, H336 P210, P261, P264, P280, P312, P403+P223
8	Distilled water	1200 µL	-
9	Lysis solution	800 µL	H302, H315, H318, H332, H411 P264, P273, P280, P310, P362+P364, P501

Material Storage

The «**ELITe InGenius SP 1000**» extraction cartridge should be stored at room temperature (+10 / +30 °C). For the expiration date, please refer to the product label.

Do not freeze. Keep the extraction cartridge away from high temperatures, humidity, and vibration.

Avoid exposure with direct sunlight.

Store the extraction cartridge with the sealed side up.

Material Quality Controls

ELITechGroup S.p.A. (EGSpA) guarantees the performance characteristics of the «**ELITe InGenius SP 1000**» for applications as described in the manual.

In accordance with the EGSpA certified Quality Management System, the «**ELITe InGenius SP 1000**» has been tested against established acceptance criteria to ensure consistent product quality.

MATERIALS REQUIRED BUT NOT PROVIDED

The following equipment and reagents are not provided:

- Disposable powder free gloves in nitrile or similar material.
- Laminar airflow hood.
- Micropipettes and sterile tips with aerosol filter or sterile positive displacement tips.
- Vortex mixer.
- Bench microcentrifuge (~13,000 RPM).
- Bench centrifuge (~ 5,000 RPM).

To run samples on the «**ELITe InGenius**» system, the user must use the secondary tubes listed below.

Sample Tubes for «ELITe InGenius» system
Secondary tubes
Extraction tubes (ELITechGroup S.p.A., ref INT032CS)

To run samples on the «**ELITe BeGenius**» system, the user must use the secondary tubes listed below.

Sample Tubes for «ELITe BeGenius» system
Secondary tubes
Sarstedt 2 mL tube (Sarstedt #72.694.006)
Extraction tubes (ELITechGroup S.p.A., ref INT032CS)

Disposable filter tips and solid waste box are not supplied within the kit. The required consumables are reported below and can be ordered individually from ELITechGroup S.p.A.

Material	Code	Quantity	Description
Filter tips 300 Axygen (for ELITe InGenius only)	TF-350-L-R-S	1 box x 10 racks with 96 tips	Standard Volume Tips (300 µL) with filter
1000 µL Filter tips Tecan (for ELITe BeGenius only)	30180118 or 30000631	1 box x 24 racks with 96 tips (2304pcs)	Liquid Handling (LiHa) disposable tips (1000 µL) with filter
ELITe InGenius® Waste Box	F2102-000	20 box / pack	Disposable plastic containers

OTHER PRODUCTS REQUIRED

This product must be used in association with the «**ELITe InGenius**» (ELITechGroup S.p.A., ref. INT030) or the «**ELITe BeGenius**» (ELITechGroup S.p.A., ref. INT040) instruments, and with the «**ELITe InGenius® SP 200 Consumables Set**» (ELITechGroup S.p.A., ref. INT032CS).

The consumables necessary to carry out the extraction procedure are included in the «**ELITe InGenius SP 200 Consumable Set**». The consumable set can be ordered separately using the code ELITechGroup S.p.A., ref. INT032CS. The consumable set components are listed below:

Component	Quantity	Description
Extraction tube	48	Disposable tube to be placed in the extraction position. It can also be used as secondary tube for loading samples
Tip cassettes	4 x 12	Cassette containing a piercing tip and a pipette tip used during the extraction procedure
Elution tubes	50	0.5 mL tube and cap used to collect the extracted Nucleic Acid (NA)

Extraction and Inhibition Internal Control is not included in this kit. When this extraction kit is used in association with an amplification ELITe MGB® Kit by ELITechGroup S.p.A., for the Extraction and Inhibition Internal Control, please refer to the amplification ELITe MGB® Kit IFU.

WARNINGS AND PRECAUTIONS

This product is exclusively designed for *in-vitro* use.

General warnings and precautions

Handle and dispose of all biological samples as if they were able to transmit infective agents. Avoid direct contact with the biological samples. Avoid splashing or spraying. The materials that come into contact with the biological samples must be treated for at least 30 minutes with 3% sodium hypochlorite (bleach) or autoclaved for one hour at 121°C before disposal. Do not allow extraction reagents to contact sodium hypochlorite (bleach).

Handle and dispose of all reagents and all materials used to carry out the assay as if they were able to transmit infective agents. 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 neutralised before disposal.

After receiving the kit, check the kit components for damage. If extraction cartridges are damaged, contact ELITechGroup Technical Services or your local distributor. In the case of liquid spillage, refer to "Warnings and precautions for specific components" and to the appropriate Safety Data Sheets (SDS).

The chemicals and plastic parts are for laboratory use only; they must be stored in the laboratory and are not to be used for purposes other than intended.

Wear suitable protective clothes and gloves and protect eyes and face.

Discard gloves if they get contaminated.

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 local regulations.

Carefully read all the instructions provided in the product before running the assay.

While running the assay, follow the instructions provided with the product.

Do not use the product after the indicated expiry date.

Do not use damaged kit components.

Only use the reagents provided in the product and those recommended by the manufacturer.

Do not use reagents from other manufacturers.

Warnings and precautions for molecular biology

Molecular biology procedures, such as nucleic acid extraction, amplification and detection, require qualified and trained staff to avoid the risk of erroneous results, especially due to the degradation of nucleic acids contained in the samples or contamination of the samples by amplification products.

The samples must be exclusively used for this type of analysis. Samples must be handled in a Class II Biological Safety Cabinet. Pipettes used to handle samples must be exclusively used for this specific purpose. The pipettes must be of the positive displacement type or be used with aerosol filter tips. The tips used must be both DNase and RNase free, and DNA and RNA free.

Warnings and precautions specific for the components

«ELiTe InGenius SP 1000» cartridges are for single use.

The following components of the «ELiTe InGenius SP 1000» contain hazardous reagents. GHS Hazard and Precautions statements applied to those components are listed below.

Please, note that hazard labeling is not necessary for quantities less than 125 g or 125 mL.

Lysis Solution

Contains Cetrimonium chloride and Guanidinium chloride



Danger

H302:	Harmful if swallowed.
H315:	Causes skin irritation.
H318:	Causes serious eye irritation
H332:	Harmful if inhaled
H411:	Toxic to aquatic organisms with long-lasting effects.
P264:	Wash the hands thoroughly after use.
P273:	Do not disperse in the environment.
P280:	Wear protective clothing. Protect eyes, face.
P310;	Contact a doctor immediately.
P362+P364:	Remove all contaminated clothing and wash it before wearing it again.
P501:	Dispose of the product and container at a hazardous or special waste collection point in accordance with local, regional, national and/or international regulations.

PK solution

Contains Protein kinase K, Glycerol



Danger

- H334:** May cause allergic or asthmatic symptoms or breathing difficulties if inhaled.
- P264:** Wash the hands thoroughly after handling.
- P280:** Wear protective gloves/protective clothing/eye protection/face protection.
- P312:** Call a POISON CENTER or a doctor if you feel unwell.
- P342+P311:** In case of respiratory symptoms: contact a doctor.
- P362+P364:** Remove all contaminated clothing and wash it before wearing it again.
- P403+P233:** Keep the container tightly closed and in a well-ventilated place.

Binding Buffer, Wash Buffer 1, and Wash Buffer 2

Contains 2-propanol



Danger

- H225:** Highly flammable liquid and vapour.
- H319:** Causes serious eye irritation.
- H335:** May cause respiratory irritation.
- H336:** May cause drowsiness or dizziness
- P210:** Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
- P261:** Avoid breathing dust/fume/ gas/mist/vapours/spray.
- P264:** Wash the hands thoroughly after handling.
- P280:** Wear protective gloves/protective clothing/eye protection/face protection.
- P312:** Call a POISON CENTER or a doctor if you feel unwell.
- P403+P233:** Store in a well-ventilated place. Keep container tightly closed.

For further information, please, see Material Safety Data Sheets.

No other component of the «**ELiTe InGenius SP 1000**» contains hazardous reagents that require European Community Risk and Safety phrases and GHS Hazard and Precautions phrases.

Do not reuse extraction cartridge or tip rack.

Do not damage or obscure the 2D code.

When liquid drops are present on the wall of the cartridge well, shake gently without creating bubbles to move the drops down to the bottom of the tube.

Keep the boxes containing cartridges at the indicated temperature and orientation.

Elution is performed with distilled water, the eluate final volume may be affected by residues on the magnetic beads, on the tip surface or evaporation.

The use of an internal control is recommended to obtain reliable diagnostic results.

Warnings and precautions specific for ELiTe InGenius and ELiTe BeGenius Systems

In the case of an instrument error message, please refer to instrument Operator's Manual (ELiTechGroup S.p.A., ref. INT030 or INT040).

SAMPLES AND CONTROLS

For reproducible and high yields of extraction, appropriate sample collection, transport and storage is essential. Yields may vary from sample to sample depending on factors such as the patient, the sample age and the type of sample.

The "ELiTe InGenius SP 1000" product has been validated in association with various molecular diagnostic assays by ELiTechGroup S.p.A. and the following biological samples:

- Serum,
- Plasma collected in EDTA or ACD,
- Respiratory samples (Bronchoalveolar Lavage (BAL) / Broncho Aspirate (BA)).

Refer to the user manuals of the individual ELiTechGroup S.p.A. products for information on taking, transporting, storing and pretreating individual biological samples.

Interfering substances

Plasma samples **must not contain heparin**, as it is a powerful inhibitor of DNA polymerase enzymes (such as thermostable DNA polymerases and reverse transcriptase) and leads to invalid or incorrect results in downstream assays performed on the extracted DNA and RNA.

Any inhibitory effect caused by drugs that may be contained in the starting sample will have to be evaluated each time by the user in account of downstream assays performed on the extracted DNA and RNA.

Extraction quality controls

Extraction quality controls may be used for training, proficiency testing and external QC of the System. External controls may be used in accordance with guidelines or requirements of local regulations or accreditation organizations.

As a negative specimen processing control, the laboratory can use a negative sample that has already been tested with the downstream assay or carry out a simulated extraction using molecular biology grade water in place of the sample.

As a positive specimen processing Control, the Laboratory can use a positive sample that has already been tested with the downstream assay or a certified reference material.

ELITE INGENIUS PROCEDURE

Read the «**ELiTe InGenius**» operator's manual carefully.

PREPARATION OF SAMPLES

Note: Samples must be transferred by pipette; ensure there are no clots or other solid materials.

Volume of samples in the Extraction tubes

All sample types must be loaded into the system using the Extraction tube («**ELiTe InGenius SP 200 Consumable Set**», ELiTechGroup S.p.A., ref. INT032CS).

The volume required in the Extraction tubes must be exactly correspondent to the Assay Protocol used:

- **1000 µL** if an Assay Protocol "**_1000**" is used. If the available sample volume is lower than required, the sample volume may be adjusted by adding saline or phosphate buffered saline (PBS),
- **600 µL** if an Assay Protocol "**_600**" is used. If the available sample volume is lower than required, the sample volume may be adjusted by adding saline or phosphate buffered saline (PBS).

DESCRIPTION OF THE EXTRACTION PROCEDURE

Extraction with the «**ELiTe InGenius SP 1000**» reagent cartridge is performed automatically by the **ELiTe InGenius System**. The procedure includes the following steps:

1. Switch on the instrument.
2. Select functions from the system screen. It is possible to perform a session for “Extraction Only” or “Extraction plus PCR”.
3. Select the assay to be run.
4. Prepare each sample as indicated by the GUI.

Consumption for one clinical sample is as follows:

- | | |
|------------------------------------|------|
| – ELiTe InGenius SP 1000 cartridge | 1 pc |
| – Tip Cassette | 1 pc |
| – Extraction tube | 1 pc |
| – Elution tube | 1 pc |

5. Close the instrument front cover.
6. Push Start button to start the nucleic acid extraction process.
7. After process completion, open the front cover by following prompts on the system screen.

Extracted NA will be used directly in PCR reaction if a full “Extraction plus PCR” method was selected.

If “Extraction plus PCR” was not selected, the extracted NA may also be stored in the 0.5 mL elution tube. After the run, tighten the screw cap and store the sample for future use.

General overview of the ELiTe InGenius working area

The **ELiTe InGenius System** has been developed and validated for specific *in-vitro* diagnostic (IVD) applications by ELiTechGroup S.p.A. in combination with IVD extraction kits and IVD Real Time PCR kits.

An overview of the «**ELiTe InGenius**» instrument is shown in Figure 1.

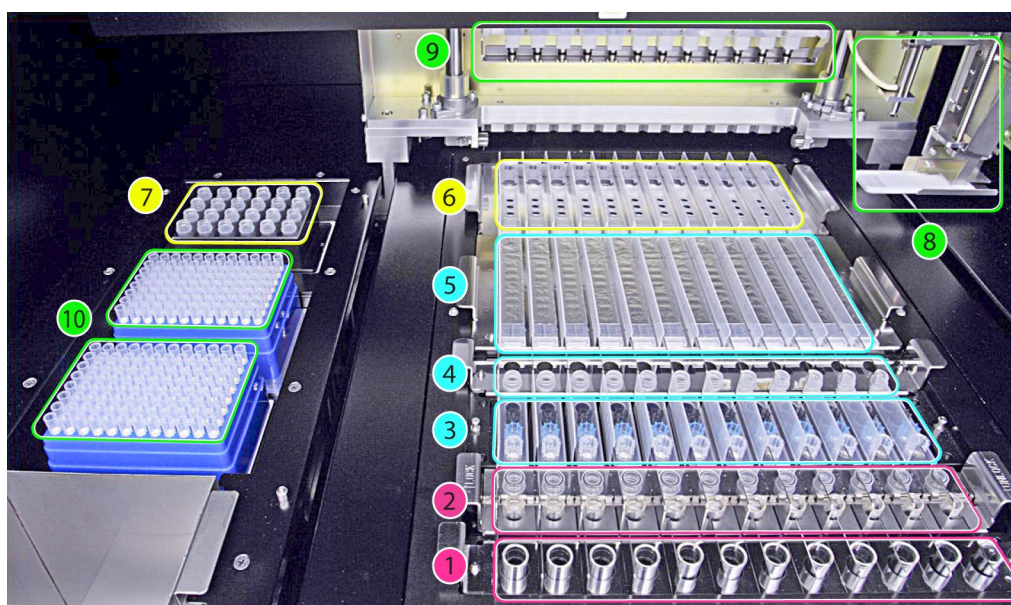


Figure 1: The «**ELiTe InGenius**» loading area

Figure 1 shows: Primary tube rack position (1), Extraction tube and cap rack position (2), Tip rack position (3), Elution tube rack position (Elution tube) (4), Extraction cartridge rack position (5) and PCR cartridge rack position (6), PCR and Internal Control reagent block (inventory manager) position (7), sample and reagent dispensing (8, 9), the waste box (left bottom) and tips positions (10).

The single head pipettor (8) starting positions is in the right back of the machine. All movable parts work only when the «**ELiTe InGenius**» instrument is closed and locked.

Loading of the «ELiTe InGenius» instrument

Refer to the «ELiTe InGenius» operator's manual.

Switch on the «ELiTe InGenius» instrument using the power switch located on the right side of the instrument. The «ELiTe InGenius» instrument software will be automatically loaded after the system has booted up. Please keep the door of the instrument system closed during system initialization.

Instrument set-up

After logging in by "Open" or "Close" modality (IVD certified), the main screen "Home" appears (Figure 2).

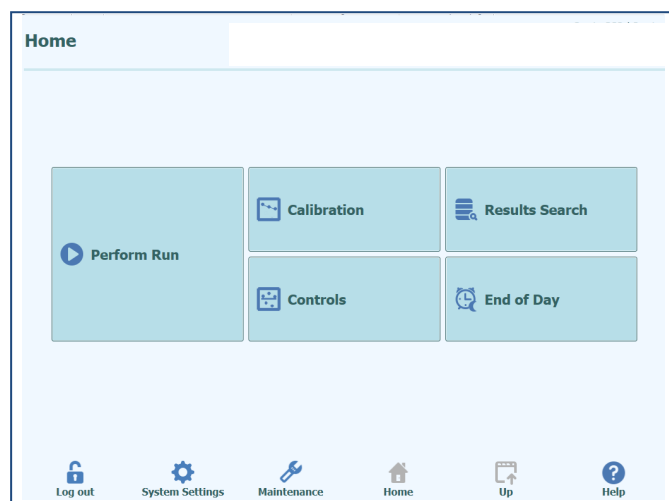


Figure 2: «ELiTe InGenius» Home screen

1. Select "Perform Run" to start loading the system and prepare for starting a run.

The Perform Run screen appears (Figure 3).

T	Sample ID	Assay	Sample Matrix	Protocol	Sample Position	Dilution Factor	M	S
1								
2								
3								
4								
5								
6								
7								
8								
9								
10								
11								
12								

Figure 3: "Perform Run" screen

"Input Volume" depends on the extraction reagents. Select always 1,000 for ELiTe InGenius SP1000 extraction cartridge. This cartridge can process volume sample of 600 µL or 1 mL.

"Elute Volume" depends on specific assays. Possible elution volumes are 50, 100, 200 µL.

Sample ID (SID) and Assays to be performed have to be specified. The picture below shows an example of three assays assigned to a single SID (Figure 4).

Perform Run

Extraction Input Volume: 1,000 Extracted Elute Volume: 100

T	Sample ID	Assay	Sample Matrix	Protocol	Sample Position	Dilution Factor	M	S
1	EG1	CMV ELiTe_PL_1000_100_01	Plasma (PL)	Extract + PCR Extraction Tube		1	☒	☐
2	EG2	CMV ELiTe_PL_1000_100_01	Plasma (PL)	Extract + PCR Extraction Tube		1	☒	☐
3	EG3	CMV ELiTe_PL_1000_100_01	Plasma (PL)	Extract + PCR Extraction Tube		1	☒	☐
4	EG4	CMV ELiTe_PL_1000_100_01	Plasma (PL)	Extract + PCR Extraction Tube		1	☒	☐
5	EG5	CMV ELiTe_PL_1000_100_01	Plasma (PL)	Extract + PCR Extraction Tube		1	☒	☐
6	EG6	CMV ELiTe_PL_1000_100_01	Plasma (PL)	Extract + PCR Extraction Tube		1	☒	☐
7	EG7	CMV ELiTe_PL_1000_100_01	Plasma (PL)	Extract + PCR Extraction Tube		1	☒	☐
8	EG8	CMV ELiTe_PL_1000_100_01	Plasma (PL)	Extract + PCR Extraction Tube		1	☒	☐
9	EG9	CMV ELiTe_PL_1000_100_01	Plasma (PL)	Extract + PCR Extraction Tube		1	☒	☐
10	EG10	CMV ELiTe_PL_1000_100_01	Plasma (PL)	Extract + PCR Extraction Tube		1	☒	☐
11	EG11	CMV ELiTe_PL_1000_100_01	Plasma (PL)	Extract + PCR Extraction Tube		1	☒	☐
12	EG12	CMV ELiTe_PL_1000_100_01	Plasma (PL)	Extract + PCR Extraction Tube		1	☒	☐

LIS Work List (Empty) Clear Save Template Load Template Next

Log out System Settings Maintenance Home Up Help

Figure 4: Example of Sample ID and Assay specification

2. Select "SID". Enter the sample ID using the keypad or barcode scanner.
3. Select "Assay". Choose the assay from the list. In the same session select only Assay Protocol using 1000 µL of sample or only Assay Protocol using 600 µL.

Note: Assay Protocol using 1000 µL of sample can be run together with assay protocol using 600 µL if both Assay Protocol use the same extracted elute volume (eg. 1000_100 and 600_100)

The system screen will be updated according to the assay selected.

4. Select "Protocol" to define "Extraction only" or "Extraction plus PCR" methods.

At this point, sample positions can be saved to create a panel template. For instructions on how to save the settings refer to the «**ELiTe InGenius**» operator's manual SCH mINT030.

Note: with ELiTe InGenius SP 1000 kit, samples can only be loaded into the Extraction tube.

5. Press the "Next" button to proceed with the disposable-loading.

The "Load / Unload Inventory" screen appears (Figure 5).

Load/Unload Inventory

Block ID: Block-A Name: Barcode: Reagent Name: Lot Number: Expiry Date: Tube Serial No. Tests remaining: Delete

Barcode Scan Delete Save

	1	2	3	4	5	6
A	CMV Q - PCR Mix	CPE				
B						
C						
D						

Load List Next

Log out System Settings Maintenance Home Up Help

Figure 5: "Load / Unload Inventory" screen

This screen allows the user to confirm reagent and control loading according to the settings defined in the "Perform Run" screen.

6. To confirm that sufficient reagents for the number of tests selected are placed in the inventory manager position 7 (cfr. page 9, Figure 1) as indicated on the screen, press the "Next" button.

Note: For products composed of Mix + RT enzyme, the number of reactions per tube readable by QR code refers to the mix tube not yet complete (without RT addition).

Note: “Next” button is enabled when there are sufficient reagents/controls for the run.

The “Load / Unload Inventory” screen for Tip rack loading appears (Figure 6).

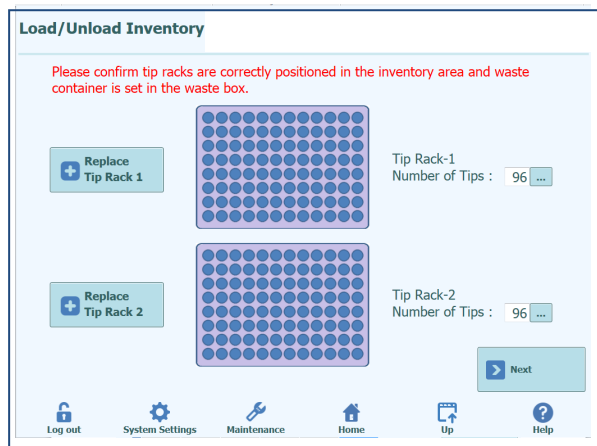


Figure 6: The “Load / Unload Inventory” screen confirms tip rack placement

7. Place sufficient Tips racks in position 10 (cfr. page 9, Figure 1).

Note: The GUI ask to check that the Tip racks are correctly loaded and that a Waste container is present.

8. Press the “Next” button.

Note: The “Next” button will not be enabled until there are sufficient Single Tips loaded for the run.

The “Disposable” screen appears to guide the user during the disposables loading. The first screen is related to the PCR Rack loading (Figure 7).

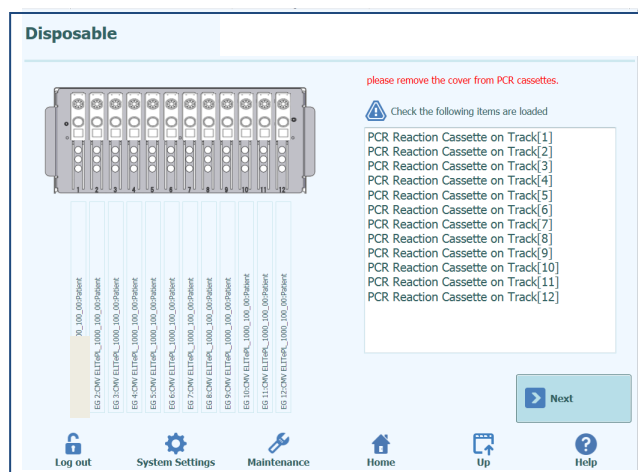


Figure 7: The “Disposable” screen is used to confirm loading PCR racks

When “Extraction plus PCR” Protocol has been selected in the “Perform Run” screen:

9. Place the PCR cassettes indicated in position 6 (cfr. page 9, Figure 1).

Note: The GUI ask to check that the covers of PCR Cassettes were removed.

10. Press the “Next” button.

Note: If the Extraction only protocol was selected in the "Perform Run" screen, the PCR Cassette don't have to be loaded.

The “Disposable” screen for Extraction Rack loading with Extraction Cartridge appears (Figure 8).

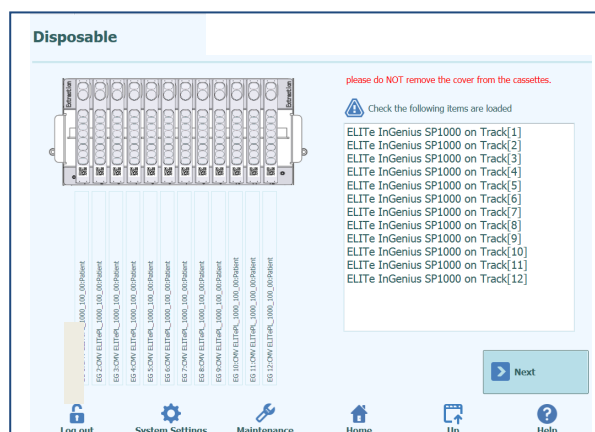


Figure 8: The “Disposable” screen is used to confirm Extraction Rack loading

11. Place the Extraction cartridge cassette(s) indicated in position 5 (cfr. Page 9, Figure 1). Check visually the extraction cartridges to verify if the beads resuspend correctly; if they do not immediately resuspend, try with vigorous shaking or even with a short vortexing (see “Troubleshooting”)

Note: The GUI alerts not to remove the covers of Extraction Cassettes.

12. Press the “Next” button.

Note: If an insufficient number of Extraction cartridge for the run are loaded, an error will occur at the beginning of the extraction process and a warning is shown.

The “Disposable” screen for elution tube loading with Elution Tube Rack appears (Figure 9).

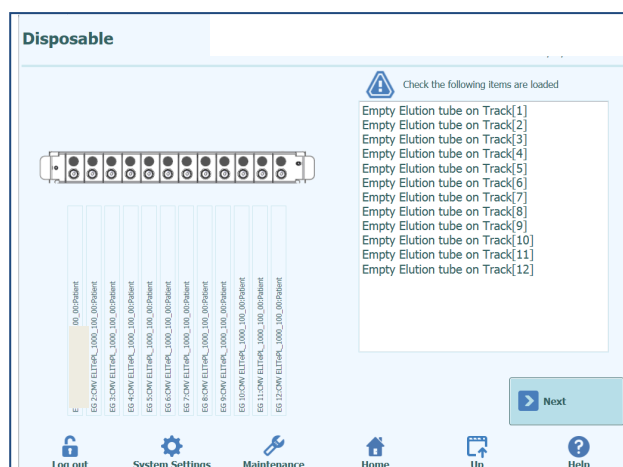


Figure 9: The “Disposable” screen is used to confirm loading of Elution Tube Rack with elution tube

13. Place the “Elution Tubes” into Elution Tube Rack, indicated in position 4 (cfr. page 9, Figure 1).
14. Press the “Next” button.

Note: If an insufficient number of Elution tubes for the run are loaded, an error will occur at the beginning of the extraction process and a warning is shown.

The “Disposable” screen for tip package loading appears (Figure 10).

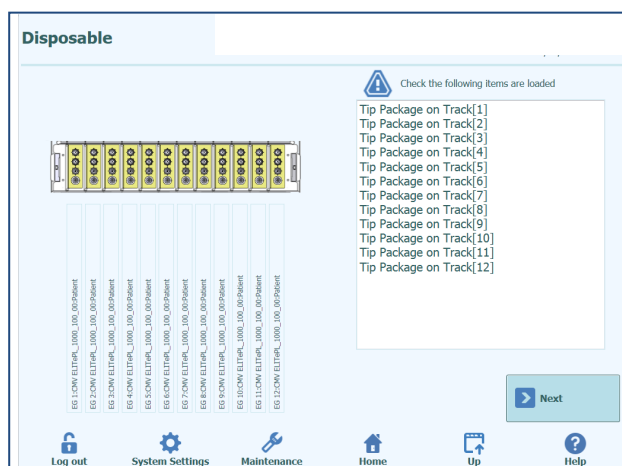


Figure 10: The “Disposable” screen is used to confirm loading tips racks.

15. Place the amount of “Tip package” indicated in position 3 (cfr. page 9, Figure 1).
Ensure that the Tip (1) and the piercer (3) are placed as shown in the picture below (Figure 11).

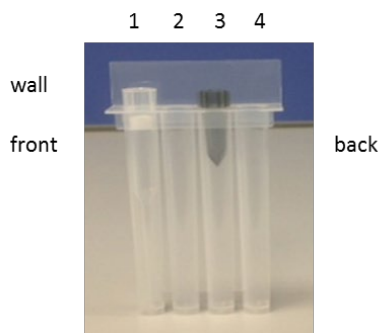


Figure 11: Tips disposition on Tip Cassette

16. Press the “Next” button.

Note: If an insufficient number of Tip cassettes for the run are loaded, an error will occur at the beginning of the extraction process and a warning is shown.

The “Disposable” screen for extraction tube rack loading appears (Figure 12).

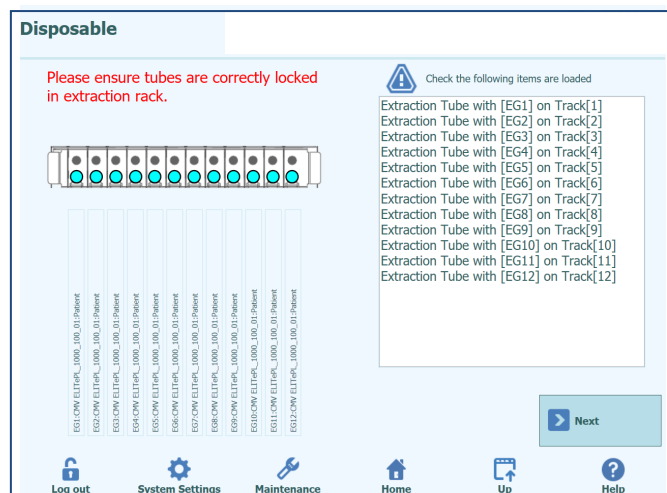


Figure 12: The “Disposable” screen is used to confirm loading extraction tube racks

17. Place the “Extraction Tubes” indicated in position 2 (cfr. page 9, Figure 1).

Note: The GUI ask to lock the Extraction Tubes in the Extraction rack.

18. Press the “Next” button.

Note: In the same session **only 1000 µL OR only 600 µL** of sample must be present in the "Extraction Tubes".

Note: If some Extraction Tubes are not loaded, an error will occur at the beginning of the extraction process and a warning is shown.

The “Disposable” screen for sample rack loading appears (Figure 13).

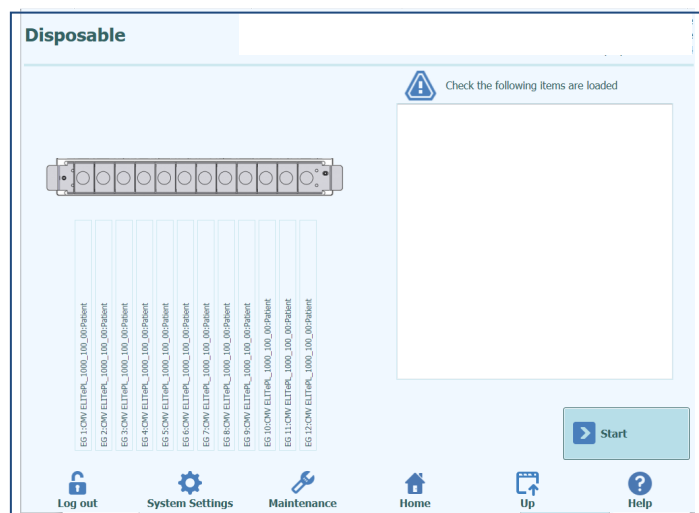


Figure 13: The “Disposable” screen is used to confirm loading of sample racks.

19. Press the “Start” button to start the run.

Note: The primary sample are not processed by this kit and the Sample rack is not used.

The following message is shown (Figure 14).

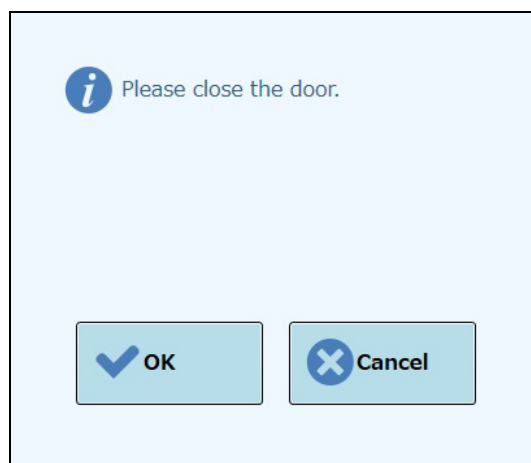


Figure 14: Instrument close door request message

20. Close the front door and press the “OK” button on the popup message.

The “During Run” screen appears (Figure 15). The run process can be followed on this screen.



Figure 15: During run screen

End of Assay:

If an “Extraction plus PCR” protocol was selected, the “End of Run” screen is shown. The “OK” button becomes active when the instrument front door may be opened (Figure 16).

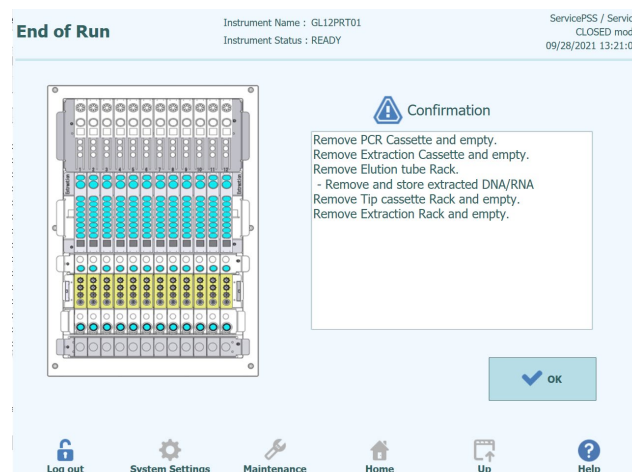


Figure 16: The End of Run screen

21. Open the front door.

Instructions to unload, store or discard samples, materials and reagents are listed in the “End of Run” screen.

22. Carry out the actions listed immediately.

23. To confirm all actions have been completed, press “OK”.

The extracted DNA or RNA may be stored at -20 °C for a maximum of thirty days or at -70 °C for longer periods. Freeze/Thawing cycles of extracted DNA or RNA must be limited to 5 times in order to avoid titre loss.

As with other diagnostic equipment, all waste products (liquids, tips, tubes, and cartridges) should be treated as potentially dangerous bio-hazardous waste and discarded accordingly.

Shutdown of System:

24. On the Home screen, select “End of Day”. The following screen is shown (Figure 17).

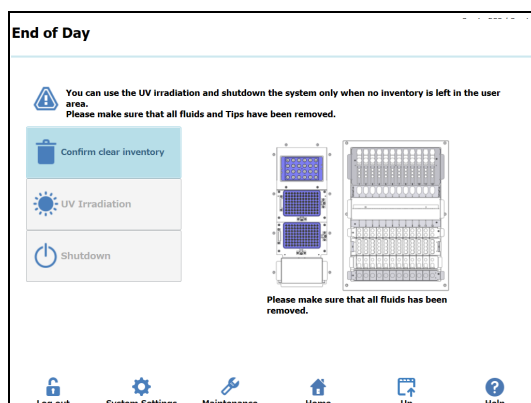


Figure 17: End of Day screen

25. Verify that the user area has been unloaded.

26. Press “Confirm clear inventory” button. The system will then allow UV decontamination or shutdown to be executed.

Daily maintenance (UV decontamination):

The «**ELITE InGenius**» instrument is equipped with an internal UV lamp (254 nm wavelength) that should be used daily, either at the end of the working day or in the morning before any run is started. The suggested decontamination time is about 30 min.

1. To start UV decontamination, on the home screen of the «**ELITE InGenius**» instrument, select “End of Day” and then press “UV Irradiation”.

Following message is displayed (Figure 18):

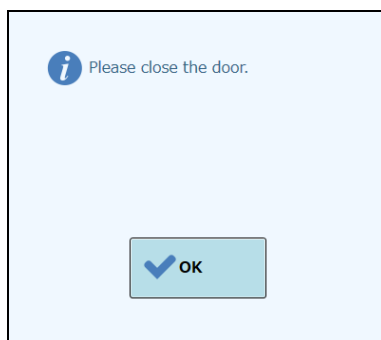


Figure 18: The Close door request message

2. Close the front door and press “OK”.

A message is displayed to allow the choice of automatic shutdown after irradiation (Figure 19).

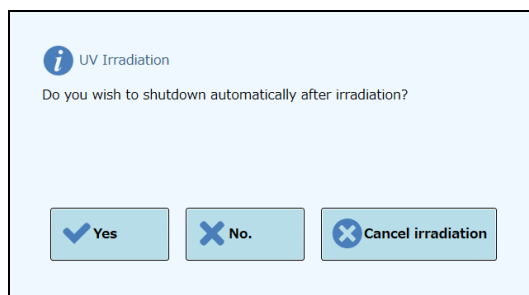


Figure 19: Choice of automatic shutdown after irradiation message

3. Select the desired option. Irradiation will be started.

As irradiation is performed, a status screen will be displayed showing the progress of the process.

ELITE BEGENIUS PROCEDURE

Read the «**ELITe BeGenius**» operator's manual carefully.

PREPARATION OF SAMPLES

Note: Samples must be transferred by pipette; ensure there are no clots or other solid materials.

Volume of samples in the Extraction tubes and in the 2mL Sarstedt tube used in “Fast Lane” Mode

All sample types must be loaded into the system using the Extraction tube («**ELITe InGenius SP 200 Consumable Set**», ELITechGroup S.p.A., ref. INT032CS) or, when “Fast Lane” Mode is selected on the GUI, by using for all the twelve-extraction position the Sarstedt 2 mL tube (Sarstedt #72.694.006).

The volume required must be exactly correspondent to the Assay Protocol used:

- **1000 µL** if an Assay Protocol “_1000” is used. If the available sample volume is lower than required, the sample volume may be adjusted by adding saline or phosphate buffered saline (PBS),
- **600 µL** if an Assay Protocol “_600” is used. If the available sample volume is lower than required, the sample volume may be adjusted by adding saline or phosphate buffered saline (PBS).

In the “Fast Lane” Mode the software allows to skip the single aspiration of the sample from the primary tube to the Extraction tube. The 12-nozzle directly transfers lysis buffer from extraction cartridge to 2 mL Sarstedt tube, mixes and aspirates all the amount of liquid for each tube and moves to the cartridge.

If the “Fast Lane” is selected on the GUI, all tubes into lane 4 (or 5) must be 2 mL Sarstedt tubes ONLY.

DESCRIPTION OF THE EXTRACTION PROCEDURE

Extraction with the «**ELITe InGenius SP 1000**» reagent cartridge is performed automatically by the **ELITe BeGenius System**. The procedure includes the following steps:

1. Choose the Protocol you wish to run:
 - **Extract + PCR**
Full sample-to-answer process.
 - **Extract Only**
The sample will be processed to extract DNA but processing will not proceed to PCR step, so no diagnostic result will be output.

- Click "Extract and PCR" for both options.

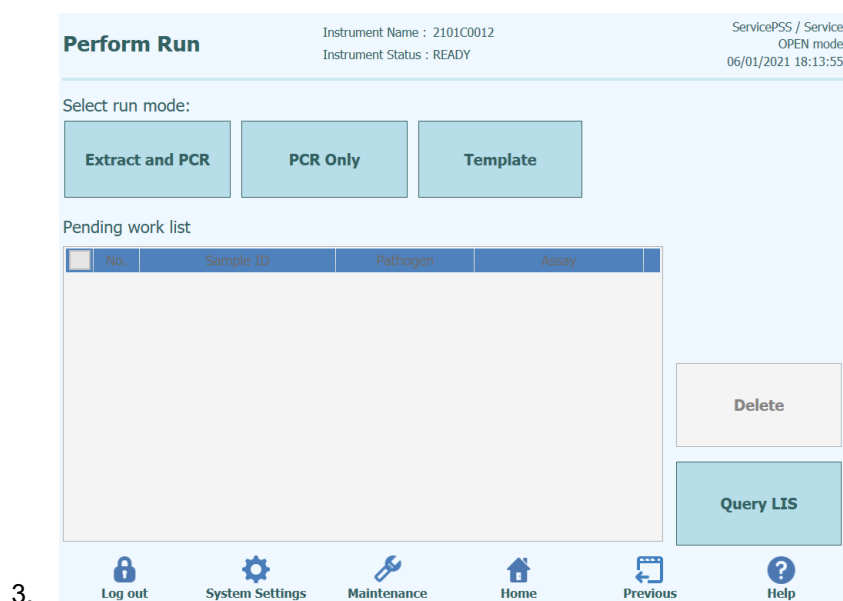


Figure 20: Protocol Selection

L5 Sample Rack Insertion screen is displayed.



Figure 21 : Run Setup Rack Insertion

- Take the L5 Sample Rack and place a Tube containing Sample for the first extraction. If a barcode is attached to the Sample Tube, place it so that the barcode can be seen green indicator is turning on.

NOTE

Wipe off any water droplets on the Sample Rack. Otherwise the traceability barcode reader may fail to scan a barcode on the Rack.

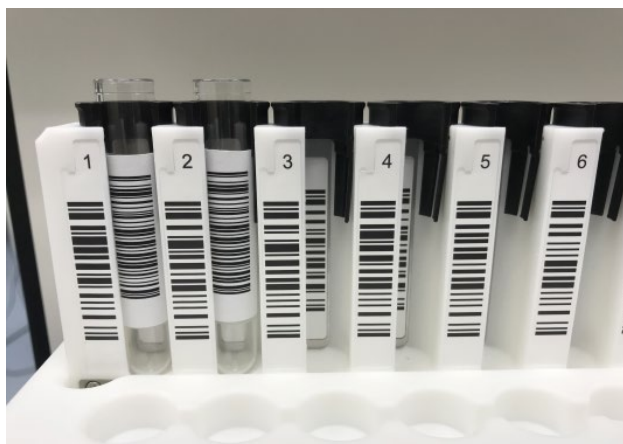


Figure 22: Rack barcode

- Gently insert the Sample Rack with Sample installed on the L5 of the Cooler Unit

When a barcode on a Sample Tube is scanned successfully, the scanned Sample ID is displayed and the "Status" field changes to "Read".

Perform Run Instrument Name : 2006B0001 Service/PS / Service
Instrument Status : READY OPEN mode 09/18/2020 12:00:04

Please click the scan button and load the sample rack in lane 5.

Pac'n	Sample ID	Reagent Name	Lvl	Lot No. Exp. Date	T/R	Status	Allow Dup.	Ext. Tube	2mL Tube
L5-1	SID0001					Read			
L5-2	SID0002					Read			
L5-3						Empty			
L5-4						Empty			
L5-5						Empty			
L5-6						Empty			
L5-7						Empty			
L5-8						Empty			
L5-9						Empty			
L5-10						Empty			
L5-11						Empty			
L5-12						Empty			

Scan Clear Next

Log out System Settings Maintenance Home Previous Help

Figure 23 : Rack barcode scan results

NOTE

Icons displayed on Sample Rack image

L5 icon	Display on Status field	State of installation
	Read	Sample ID scanned by a traceability barcode reader
	Entered manually	Sample ID entered by a user with an on-screen keyboard
	Empty	Tube is not installed
	No Barcode	Tube is installed but the barcode cannot be read
	Duplicate	Duplicate Sample ID
	Mismatch	Different Sample ID was captured by a traceability barcode reader after the user entered Sample ID with an on-screen keyboard

- If you place a Sample Tube without the Sample ID barcode attached and insert the Sample Rack, "No Barcode" will be displayed in the "Status" column.

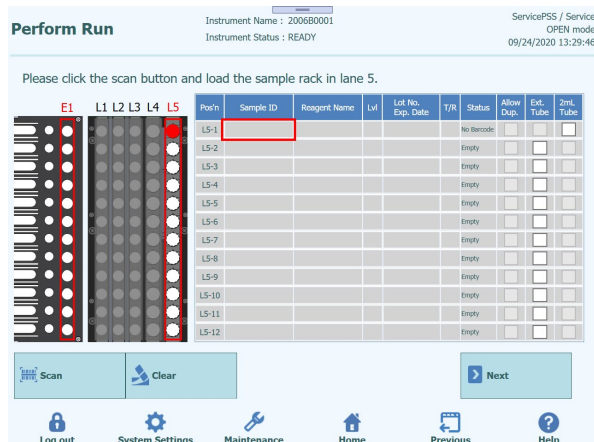


Figure 24 : Rack barcode not read

- Click the "Sample ID" field to display the on-screen keyboard. Enter the Sample ID. The "Status" column will change to "Entered manually"

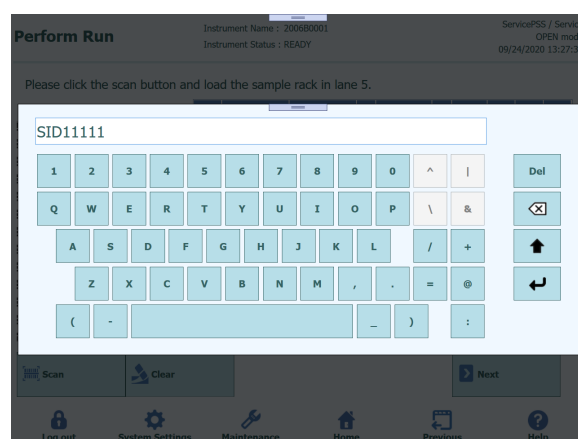


Figure 25 : enter ID display



Figure 26: ID entered manually

- 7 Click “Next” and the Display L5 Assay setting window is showed.

The screenshot shows the 'Perform Run' window with the following details:

- Instrument Name:** 2412104E0000C
- Instrument Status:** READY
- ServicePSS / Service:** OPEN mode, 07/11/2024 09:47:44
- 1st Extraction Input Volume (μL) [Lane5]:** 1,000
- 2nd Extraction Input Volume (μL) [Lane4]:** 600
- 1st Extraction Eluate Volume (μL) [Lane5]:** 100
- 2nd Extraction Eluate Volume (μL) [Lane4]:** 50
- Buttons:** Clear, Print, Save Template, Query LIS
- Table:**

Rack	W	Sample ID	Assay	Sample Matrix	Protocol	Multiple Extract	Dilution Factor	M
First Extraction								
L5-1	☐	1			Extract + PCR	1	1	☐
L5-2	☐	2			Extract + PCR	1	1	☐
- Bottom Bar:** Add Sample to Lane #5, Add Sample to Lane #4, Add Eluate to Lane #3, Add Eluate to Lane #2, Next, Log out, System Settings, Maintenance, Home, Previous, Help.

- 8 Select the liquid volume “600μL” to be used in the first extraction (Extraction Input Volume) and the liquid volume of nucleic acid extraction to be produced (Extracted Eluate Volume).

This cartridge can process volume sample of 600 μL or 1 mL.

The screenshot shows the 'Perform Run' window with the following details:

- Instrument Name:** 2412104E0000C
- Instrument Status:** READY
- ServicePSS / Service:** OPEN mode, 07/11/2024 09:47:44
- 1st Extraction Input Volume (μL) [Lane5]:** 1,000
- 2nd Extraction Input Volume (μL) [Lane4]:** 600
- 1st Extraction Eluate Volume (μL) [Lane5]:** 100
- 2nd Extraction Eluate Volume (μL) [Lane4]:** 50
- Buttons:** Clear, Print, Save Template, Query LIS
- Table:**

Rack	W	Sample ID	Assay	Sample Matrix	Protocol	Multiple Extract	Dilution Factor	M
First Extraction								
L5-1	☐	1			Extract + PCR	1	1	☐
L5-2	☐	2			Extract + PCR	1	1	☐
- Bottom Bar:** Add Sample to Lane #5, Add Sample to Lane #4, Add Eluate to Lane #3, Add Eluate to Lane #2, Next, Log out, System Settings, Maintenance, Home, Previous, Help.

- 9 Click the Assay field of each Position to display the Assay selection.

The screenshot shows the 'Perform Run' window with the following details:

- Instrument Name:** 2412104E0000C
- Instrument Status:** READY
- ServicePSS / Service:** OPEN mode, 07/11/2024 09:47:44
- 1st Extraction Input Volume (μL) [Lane5]:** 1,000
- 2nd Extraction Input Volume (μL) [Lane4]:** 600
- 1st Extraction Eluate Volume (μL) [Lane5]:** 100
- 2nd Extraction Eluate Volume (μL) [Lane4]:** 50
- Buttons:** Clear, Print, Save Template, Query LIS
- Table:**

Rack	W	Sample ID	Assay	Sample Matrix	Protocol	Multiple Extract	Dilution Factor	M
First Extraction								
L5-1	☐	1			Extract + PCR	1	1	☐
L5-2	☐	2			Extract + PCR	1	1	☐
- Bottom Bar:** Add Sample to Lane #5, Add Sample to Lane #4, Add Eluate to Lane #3, Add Eluate to Lane #2, Next, Log out, System Settings, Maintenance, Home, Previous, Help.

10 Check the Assay to be executed and click the OK button.

Instrument Name : 2412104E0000C
Instrument Status : READY
ServicePSS / Service
OPEN mode
07/11/2024 09:52:48

Sample ID: 3, 4

Assay: HCV

Type: Patient

Matrix: Generic

Clear

	Name	Replicates	Type	Matrix	IC	LIS Ordered
☒	HCV ELITe_Be_Open_600_50_1		Patient	Generic	HCV CPE	

OK Cancel

Log out System Settings Maintenance Home Previous Help

11 Click “Next” until the Display of the printout screen of Data Matrix Code for L3 Eluate Tube is showed (for the second extraction setting please refer to «ELITe BeGenius» operator’s manual). A Data Matrix Code to be attached to the 0.5mL Eluate Tube which contains the nucleic acid extraction produced in the first extraction is displayed.

Instrument Name : 2412104E0000C
Instrument Status : READY
ServicePSS / Service
OPEN mode
07/11/2024 09:53:27

Print the Sample ID labels and affix them on the eluate tubes.

	Position	Sample ID	Barcode Content
☒	L3-1	1	1(Generic[SP1000]100[000C00009]CPE)
☒	L3-2	2	2(Generic[SP1000]100[000C0000A]CPE)

Print Labels

Print this Screen

Next

Log out System Settings Maintenance Home Previous Help

12 Check the Position to print and prepare an empty 0.5mL Tube.

Perform Run

Instrument Name : 2412104E0000C

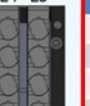
Instrument Status : READY

ServicePSS / Service

OPEN mode

07/11/2024 09:53:27

Print the Sample ID labels and affix them on the eluate tubes.



	Position	Sample ID	Barcode Content
☒	L3-1	1	1 Generic SP1000 100 000C00009 CPE
☒	L3-2	2	2 Generic SP1000 100 000C0000A CPE
☐			
☐			
☐			
☐			
☐			
☐			
☐			
☐			
☐			

Print Labels

Print this Screen

➤ Next


Log out


System Settings


Maintenance


Home


Previous


Help

13 Click "Print Labels" to print out the Data Matrix Code for the checked Position.

Perform Run

Instrument Name : 2412104E0000C

Instrument Status : READY

ServicePSS / ServicePSS

OPEN mode

07/11/2024 09:53:27

Print the Sample ID labels and affix them on the eluate tubes.

L1 L2 L3 L4 L5



☒	Position	Sample ID	Barcode Content
☒	L3-1	1	1 Generic SP1000 100 000C00009 CPE
☒	L3-2	2	2 Generic SP1000 100 000C0000A CPE
☐			
☐			
☐			
☐			
☐			
☐			
☐			
☐			
☐			
☐			

Print Labels

Print this Screen

Next



Log out



System Settings



Maintenance



Home

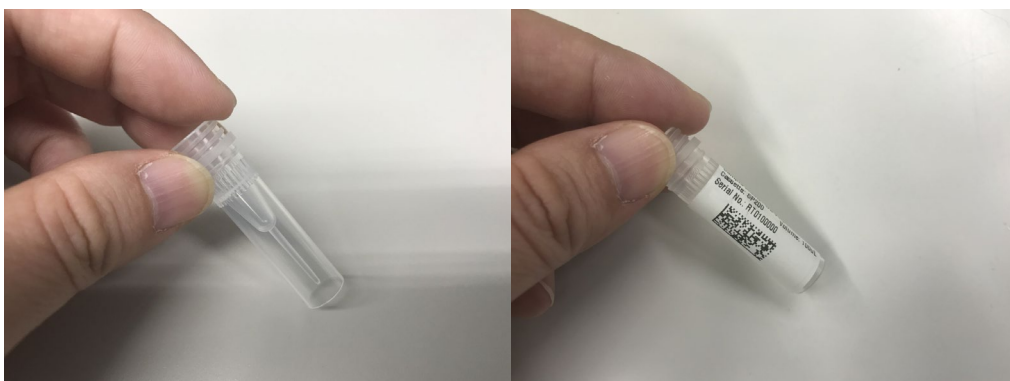


Previous



Help

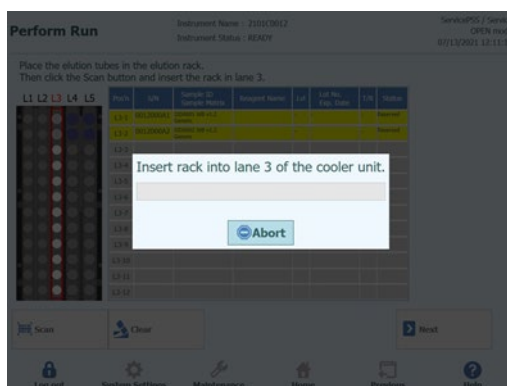
14 Paste the printed Data Matrix Code on an empty 0.5mL Tube.



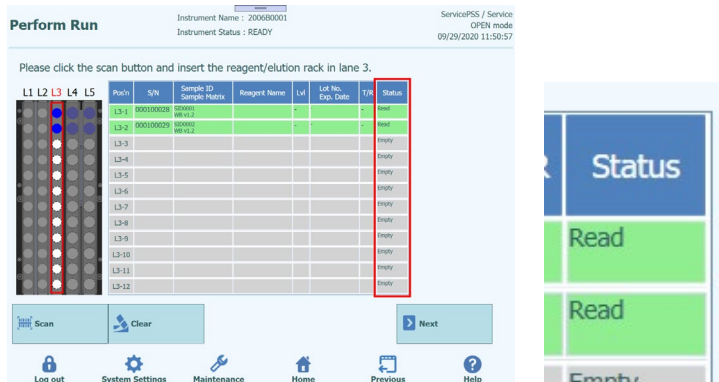
- 15 Take the L3 Reagent Rack and Set up an empty 0.5mL Eluate Tube with Data Matrix Code attached according to the installation image on the Position where the "Status" column of the ejected Reagent Rack is displayed as "Reserved".



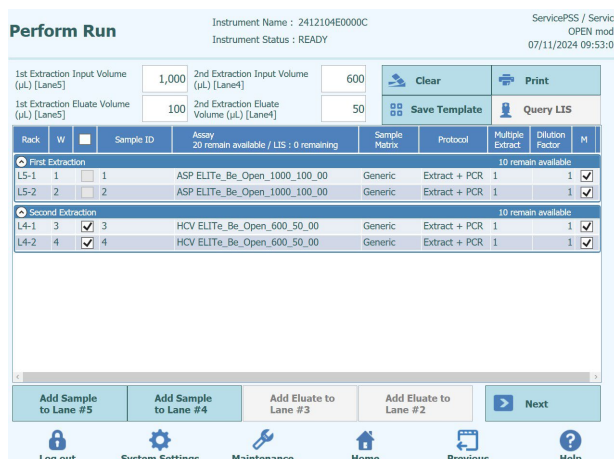
- 16 Gently insert the Reagent Rack with Eluate Tube installed into the L3 of the Cooler Unit.



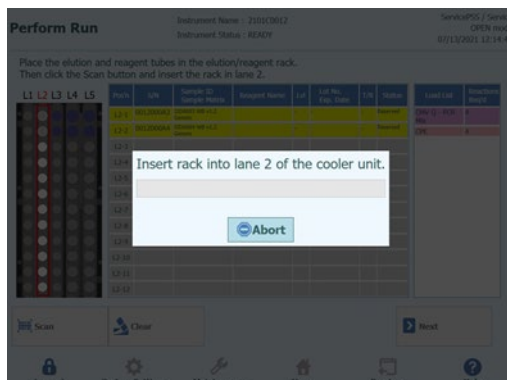
- 17 When the Data Matrix Code on the Eluate Tube is successfully read, the "Status" field will change to "Read".



- 18 After completing the L3 Reagent Rack setting, click "Next". Assay setting window will appear.



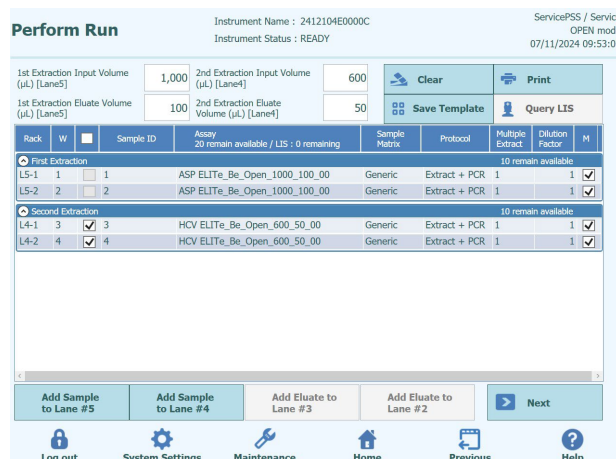
- 19 If there is no additional Eluate Tube or PCR Only Calibration/Control, click "Next" to display the L2 Reagent Rack insertion screen.



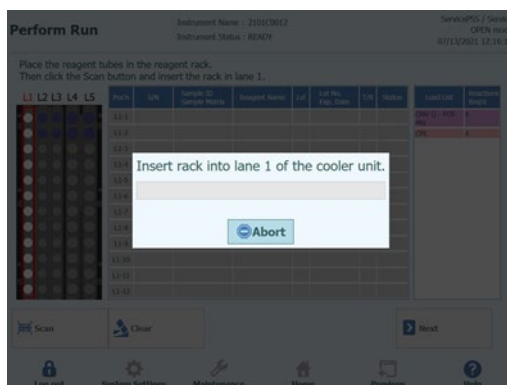
- 20 Take the L2 Reagent Rack and Set up requested 0.5mL reagent tube in an empty Position.
21 Gently insert the Reagent Rack with Eluate Tube installed into the L2 of the Cooler Unit.
22 When the Data Matrix Code on the reagent Tube is successfully read, the "Status" field changes to "Read".



- 23 After completing the L3 Reagent Rack setting, click "Next". Assay setting window will appear.



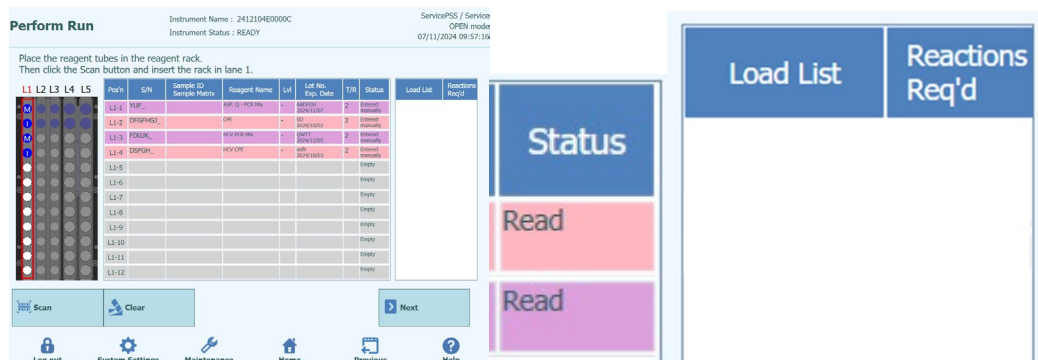
- 24 Click "Next" to display L1 Reagent Rack Insertion screen.



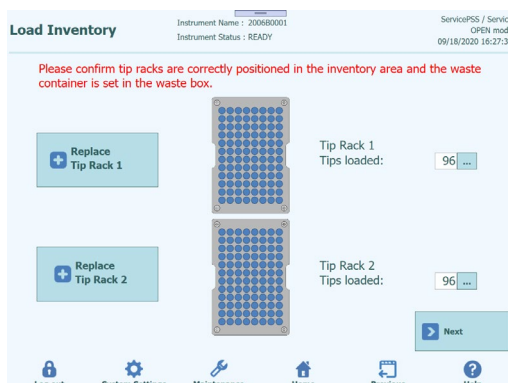
- 25 Take the L1 Reagent Rack and Set up requested PCR reagent tubes in an empty Position.
- 26 Gently insert the Reagent Rack with Reagent Tube installed into the L1 of the Cooler Unit.
- 27 When the Data Matrix Code on the reagent Tube is successfully read, the "Status" field changes to "Read".

Note: For products composed of Mix+RT enzyme, the number of reactions per tube readable by QR code refers to the mix tube not yet complete (without RT addition).

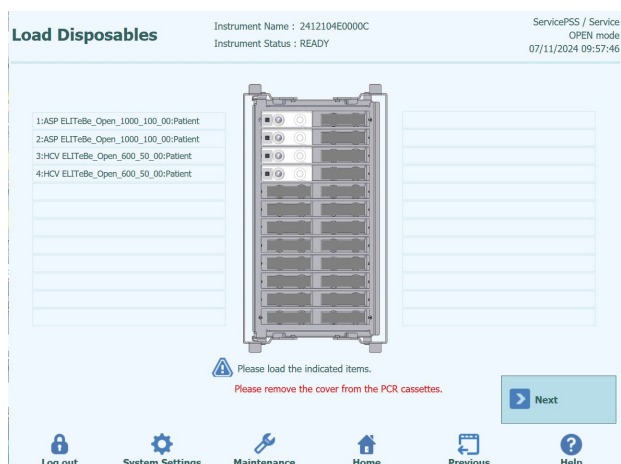
- 28 Once the required PCR reagents have been placed and all in the Load List have been cleared, click "Next".



- 29 Install Single Tips and make sure it is the same as the remaining number of Single Tips that are currently filled in the instrument.



- 30 Install PCR Reaction cassettes showed in installation image of the PCR Reaction cassette required for Run



- 31 Place the PCR Reaction cassette on the PCR Rack according to the installation image and install the PCR Rack on the instrument stage.

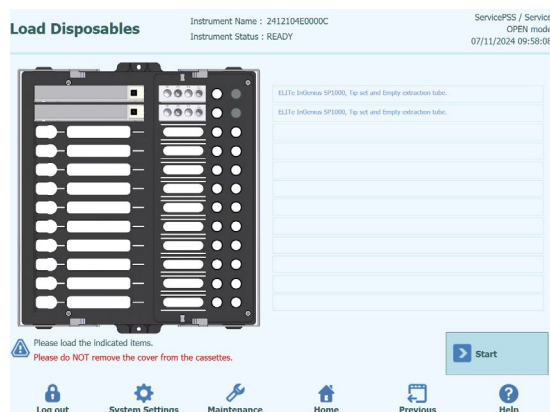
(Note) Make sure that the PCR Rack is not floating.

(Note) Make sure that the PCR Rack is correctly closed: a broad white line and the PCR cassette number position are not visible when the anti-lift grid is closed, as displayed in the following images.



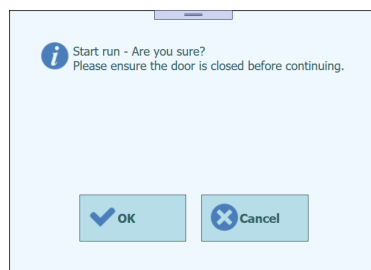
- 32 Click "Next" after installing the PCR Rack

- 33 Install consumables for the extraction as displayed in the image



34. Take out Extraction Rack from the instrument stage, place the nucleic acid extraction cartridge, the Tip-set, and empty Extraction Tube according to the placement image, and then install the Extraction Rack into the instrument stage. Check visually the extraction cartridges to verify if the beads resuspend correctly; if they do not immediately resuspend, try with vigorous shaking or even with a short vortexing (see "Troubleshooting")
35. Close the door and click "Start".

Click "OK" on the execution confirmation screen to start the extraction.



- 36 When the Run finishes, Results screen appears.

Results

Instrument Name : 200680001
Instrument Status : READY

ServicePSS / Service
OPEN mode
09/24/2020 11:54:28

Run Start: 09/24/2020 09:53:18 End: 09/24/2020 11:54:05
Performed by ServicePSS / Service

Well	Sample ID	Assay Name	Protocol	Dilution Factor	Result
1	SID0001	CMV WB_A v2.0.1	Extract + PCR	1 Y	Missing calibration and control result 30102 CMV: Ct calculation error - Parameter 30102 IC: Ct calculation error - Parameter
2	SID0002	CMV WB_A v2.0.1	Extract + PCR	1 Y	Missing calibration and control result 30102 CMV: Ct calculation error - Parameter 30102 IC: Ct calculation error - Parameter
3	SID0003	CMV WB_A v2.0.1	Extract + PCR	1 Y	Missing calibration and control result 30102 CMV: Ct calculation error - Parameter 30102 IC: Ct calculation error - Parameter
4	SID0004	CMV WB_A v2.0.1	Extract + PCR	1 Y	Missing calibration and control result 30102 CMV: Ct calculation error - Parameter 30102 IC: Ct calculation error - Parameter
5	SID0005	Toxo WB v2.0.1 E+P	Extract + PCR	1 N	Invalid-Failed to calculate Ct Missing control result 30102 Toxo: Ct calculation error - Parameter 30102 IC: Ct calculation error - Parameter

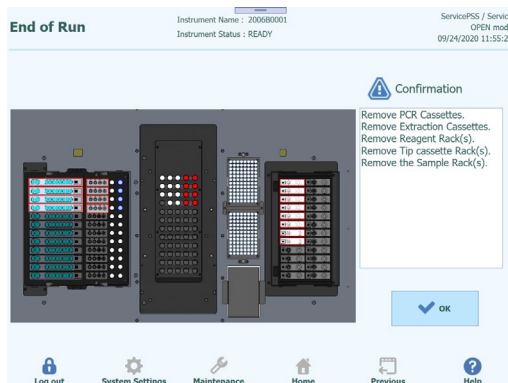
Log out System Settings Maintenance Home Previous Help

- 37 Click "End of Run".

The End of Run Screen provides instructions on unloading, storing or discarding the samples, materials and reagents. Please carry out these actions immediately.

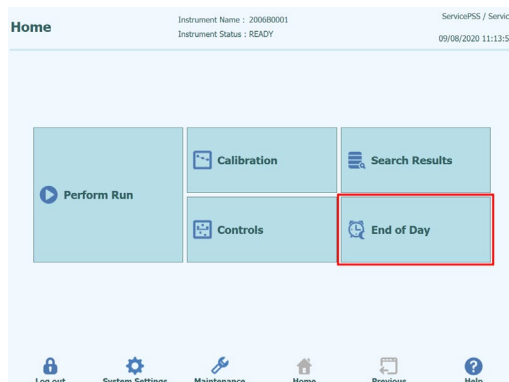
- 38 Dispose consumables according to the instrument image in which the consumables are placed.

(Note) Red circles are samples with a risk of infection and should be disposed of with caution.

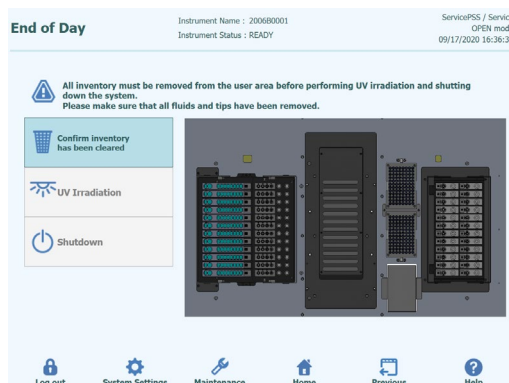


- 39 After disposing of the consumables, click "OK" to display Home screen.

- 40 Click "End of Day" on Home window.



41 Click "Confirm inventory has been cleared".



42 Click "UV Irradiation". The front door will be locked.

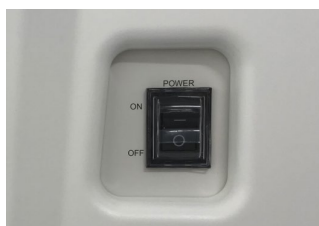


Select "Yes" to shut down the system after the UV irradiation is complete.

When "No" is selected, the system is not shut down after the UV irradiation is complete.

Warning message appears to confirm the UV lamp is ON. Click „Yes“ or „No“ to confirm or not the switching of the UV lamp.

43 After the system shuts down (after the display gets dark), turn off the power switch on the right side of the instrument.



(Note) The power must be turned off manually.

PROCEDURE LIMITATIONS

Only use the following clinical samples with this product: human serum, plasma collected in EDTA or citric acid, respiratory samples (Bronchoalveolar Lavage (BAL) / Broncho Aspirate (BA)).

The kit validation is limited to the matrices mentioned in the intended use, other matrices lead to loss of compliance with Regulation IVDR (EU) 2017/746 for the respective process. No guarantee is issued with differing sample type or change in the procedure.

This product is in compliance with the Regulation IVDR (EU) 2017/746 for *in-vitro* medical devices. In-vitro diagnostic use of the product in countries where the Regulation IVDR (EU) 2017/746 is not recognized may be subjected to the fulfilment of registration procedures according to local competent authorities.

The user is responsible to validate the performance of the product if used with assays different from those validated by ELITechGroup S.p.A. as reported in the instructions for use. ELITechGroup S.p.A. does not provide validation of performance characteristics of the product regarding these applications.

The product may be used in a clinical laboratory if the laboratory diagnostic system has been validated as per EN ISO 15189 in European countries or equivalents in other countries.

Do not use plasma samples collected in heparin with this product. Heparin inhibits DNA polymerase enzymes (such as thermostable DNA polymerases) and leads to invalid or incorrect results in subsequent steps of the analysis performed on the extracted nucleic acids.

Any inhibition phenomena from drugs that may be present in the starting sample may be evaluated in the extraction product depending upon how the extraction product is used.

The results obtained with this product are subject to the correct identification, collection, transport, storage and preparation of samples. To avoid incorrect results, it is necessary to take particular care during these activities and to carefully follow the instructions provided.

This product must be handled by personnel competent and trained in the processing of potentially infective biological samples and dangerous chemical preparations to prevent accidents with potentially serious consequences for the user or other people.

This product requires the use of work clothes and work areas that are suitable for the processing of potentially infective biological samples and dangerous chemical preparations to prevent accidents with potentially serious consequences for the user or other people.

This product must be handled by personnel competent and trained in molecular biology techniques, such as extraction, amplification and detection of nucleic acids, to avoid incorrect results with potentially serious consequences for the patient in subsequent steps of the analysis performed on the extracted nucleic acids.

This product requires the use of special clothing and instruments for extraction, preparation of amplification reactions and for amplification / detection of amplification products to avoid false positive results with potentially serious consequences for the patient in subsequent steps of the analysis performed on the extracted nucleic acids.

Cartridges can occasionally have aggregated beads that, if used as it, could lead to invalid results and/or to an inefficient extraction process.

As with any other diagnostic medical device, there is a residual risk of obtaining invalid or erroneous results with this product. This residual risk cannot be eliminated or further reduced. In some cases, this residual risk could contribute to wrong decisions with potentially dangerous effects for the patient. However, this residual risk associated to the intended use of the product has been weighed against the potential benefits to the patient and it has been assessed acceptable.

TROUBLESHOOTING

Problem	Probable Cause	Comments and Suggestions
Low yield of extraction or NA purity	Sample status	Verify that the sample storage condition is appropriate as reported in the sample and controls section. Use only fresh sample or sample stored under appropriate conditions. Extraction yield can vary from fresh or frozen sample.
	Reagent status	Verify that the extraction reagent cartridge storage condition is appropriate. Do not freeze the reagents and avoid storage locations subject to vibration.
	Solid items residues	Samples with solid residues may cause tip obstruction, and the mixing process may not function properly. The sample should be a homogeneous solution for smooth handling by the 1000 µL pipet. Do not use samples with solid residues.
	Issues with automation system	Refer to the error code displayed in the instrument operator's manual.
Contaminated extracts	Contamination with DNA or RNA	Clean carefully all instrument components and surfaces after use, using an agent capable of eliminating DNA and RNA. See ELITE InGenius manual SCH mINT030 e ELITE BeGenius SCH mINT040
NA is degraded or amplification is inhibited	Sample amount too high	If a high amount of sample has used, the DNase and RNase cannot be properly inactivated, and inhibitors cannot be completely eliminated. Dilute sample before loading.
	Elution storage	Do not store eluate at RT for long time. Tighten cap of elution tube as soon as possible, and keep samples at -20 °C.
	External RNase contamination	After use, clean all parts on the instrument surface carefully by using RNase removal agents. See ELITE InGenius manual SCH mINT030 e ELITE BeGenius SCH mINT040
Extraction cartridge with aggregated beads	Incorrect storage	Shake cartridge vigorously or even with a short vortexing; in case they do not resuspend even after that, do not use the defective cartridge and contact ELITEch Group SpA support.

SYMBOLS

REF

Catalogue Number



Temperature limits

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

UDI

Unique Device Identification



Contains sufficient for "N" tests



Do not reuse



Consult instruction for use

CONT

Contents



Keep away from sunlight



Manufacturer



Country of manufacture



Health Hazard



Danger



Flammable



Corrosive



Acute aquatic toxicity

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.

NOTICE TO PURCHASER: LIMITED LICENSE

ELITe InGenius® and ELITe BeGenius® technology is covered by patents and requests for patents.

This limited license allows the person or entity to whom the product has been provided to use the product and data generated with the use of the product, only for human diagnostics. Neither ELITechGroup S.p.A. nor its licensors grant other explicit or implied licenses for other purposes.

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