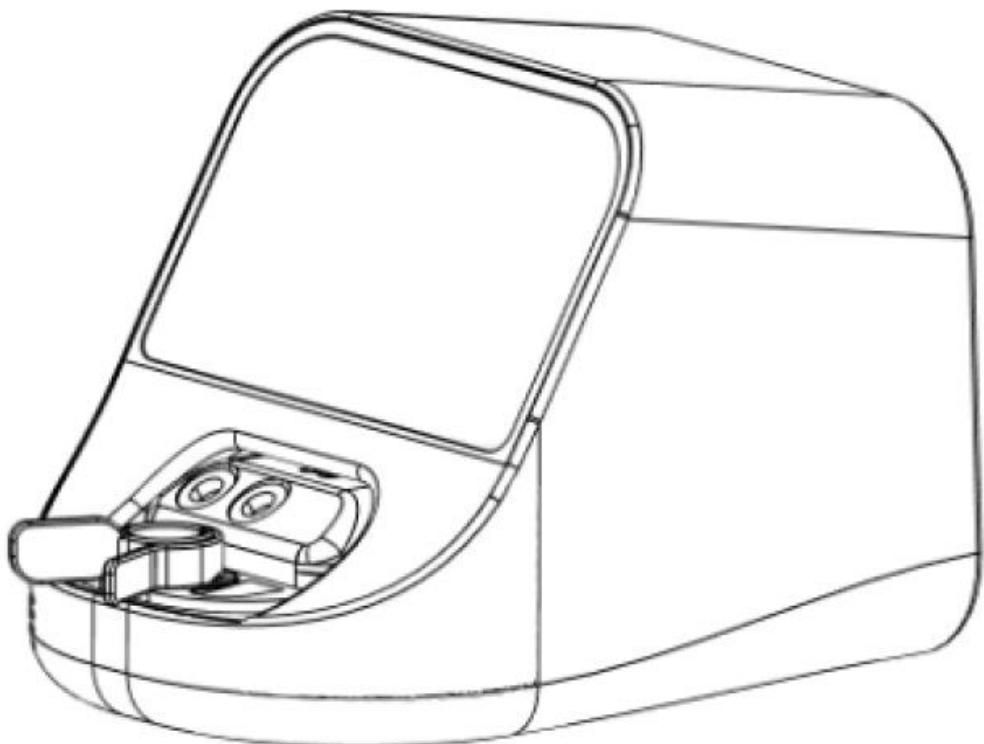




DaVitri™

User Manual



DaVitri model number: (01) 08437021820058

**Caution: United States law restricts this device to sale by or on the order
of a physician.**

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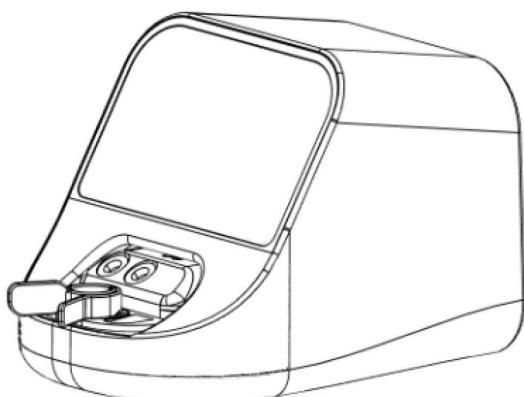
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1. General Information

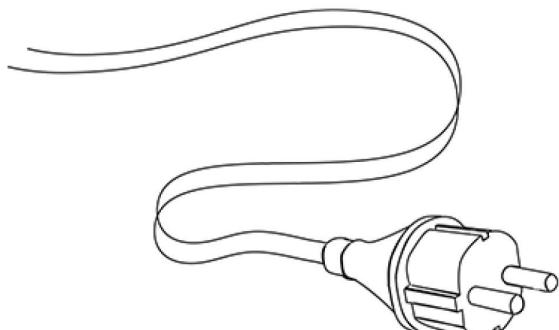
1.1. Brief Device Description

DaVitri is a medical device which automates the vitrification preparation of human mature MII oocytes. The system comprises the DaVitri Station, the DaVitri Dish and a software interface. DaVitri Station: The Station is the mechanical/electrical component of the equipment. This table-top unit provides a touch screen control that activates the steps of the pre-vitrification cycle including fluid exchanges and environmental management. Prior to the activation of the pre-vitrification cycle, the operator loads standard commercial solutions from Kitazato kits that facilitate pre-vitrification with ES and VS at room temperature. There are no user-selected options. Once in operation, the Station will show progress of the cycle. The Station has an internal independent battery power supply which allows for operation without connection to an AC power source. The Station is supplied non-sterile and its packaging includes:

DaVitri Station which comprises the system housing, internal hardware, touch screen user interface, and embedded software programmed with the pre-vitrification protocol. The System does not require any assembly by the user.



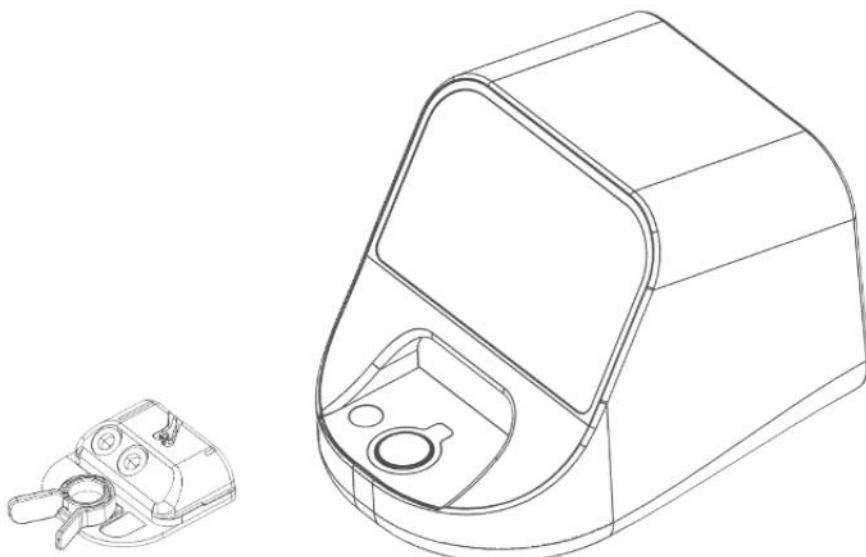
AC power connector, DC power converter.



Note: Electrical Isolation The device is designed with a built-in electrical isolation system to ensure safety and protect the user from potential electrical hazards. This isolation is achieved through the medical grade power supply delivered with the system MeanWell GEM40I15-JP1 DaVitri is ONLY compatible with vitrification media manufactured by Kitazato. Media should be stored following the Kitazato instructions for use.

DaVitri Dish: The DaVitri Dish is an individually packaged, sterile, single-use, disposable, cartridge. Once the user initiates the automated process using the touch screen, the system allows the user to load the dish into the station. The pre-vitrification reagents are manually loaded into two reservoirs in the dish. The priming process is started after the reagents are loaded into the fluid reservoir chambers in the DaVitri Dish (see instructions below). During priming, microfluidic pumps (in the station) control the flow of reagents to and from the central well, which is covered with a cap.

DaVitri Station and DaVitri Dish (Unloaded).



1.2. Indication for Use

The DaVitri Vitrification System is indicated for use in the preparation and pre-vitrification of (MII) oocytes.

1.3. Functionalities

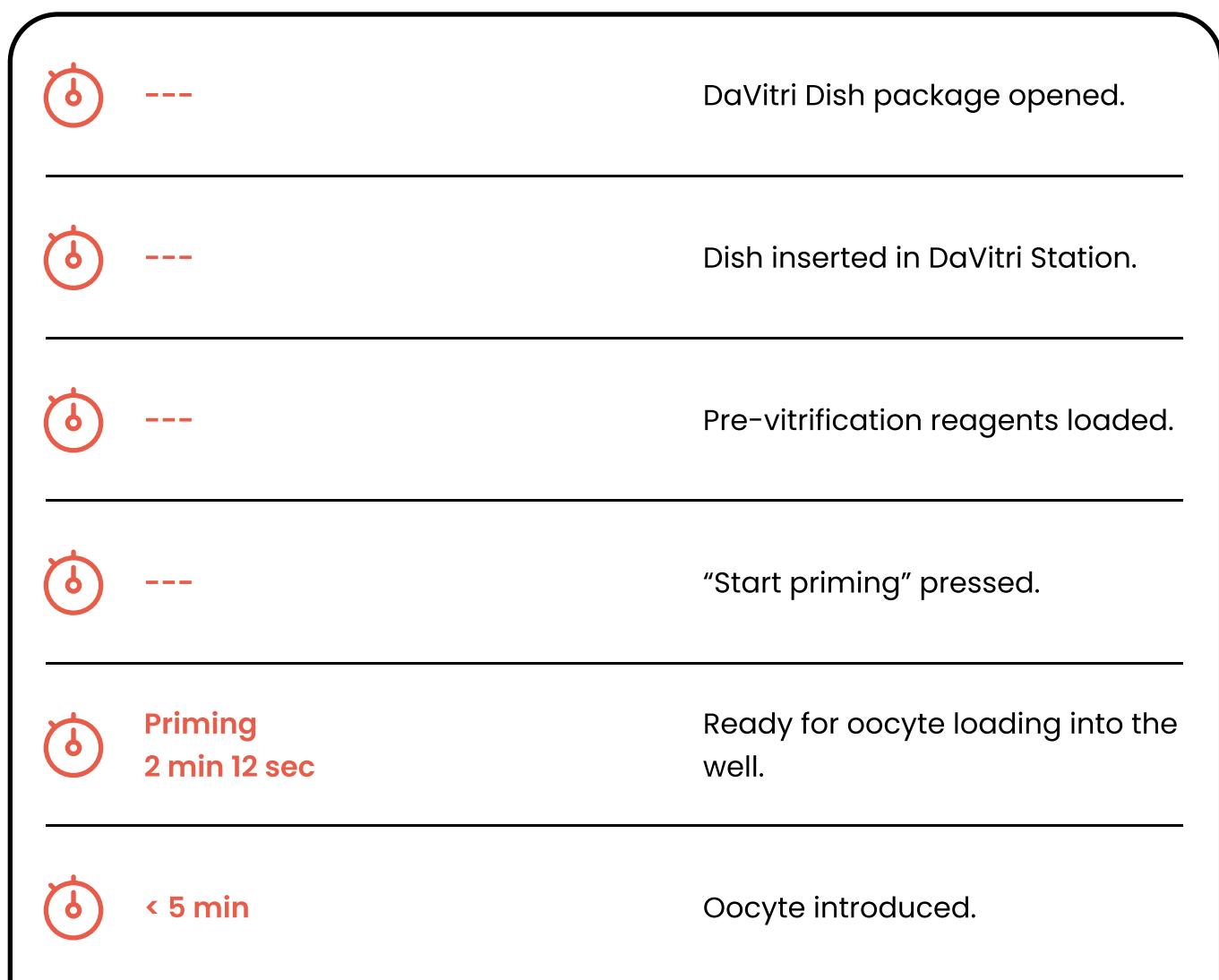
DaVitri has a single operational protocol:

Pre Vitrification: During this process, vitrification reagents are driven from the fluid reservoirs to the central DaVitri well. Fluid exchange takes place at the center well where the oocytes are located.

1.4. Clinical Workflow

DaVitri has a single operational protocol:

The following diagram illustrates the clinical workflow steps of DaVitri for the oocyte cryo protocol, along with associated times.



	< 5 min	Oocyte introduced.
	---	"Start protocol pressed".
	10 min	Protocol ended.
	75 sec	Oocytes loaded on cryogenic device.
	15 sec	Device in LN2

DaVitri CRYO Protocol

1.5. Contraindications

There are no contraindications for use of the DaVitri system.

1.6. Sterilization Information

The DaVitri Station is reusable and non-sterile. It should be disinfected after use per the instructions in this user manual (see 5.Cleaning and disinfection).

The DaVitri Dish is provided sterile in a pouch, and is intended for Single Use Only. According to the guidance and principles given in the ISO 10993 standards, the DaVitri Dish is a consumable intended to be into direct contact with biological tissues or cells (oocytes).

After use, discard each DaVitri Dish with the vitrification media, into a biohazard container, or wherever used lab consumables (i.e pipettes, petri dishes, needles) are discarded.

**Note: Discard the DaVitri Dish loaded with used vitrification media.
Do not empty the DaVitri Dish, or the fluid reservoirs prior to discarding.**

Neither the sterility nor functionality of a reused DaVitri Dish can be guaranteed. An expiration date (or “use before” date) is marked on the label of each DaVitri Dish package. The DaVitri Dish has been sterilized by gamma irradiation. Packaging of the dish must always be opened under a laminar flow hood.

1.7. Precautions

Location Usage: DaVitri should be used in an embryology laboratory under a laminar flow hood.

Inspect DaVitri Dishes: Prior to use of the DaVitri Dish, inspect the DaVitri Dish packaging for any defects. Do not use the DaVitri Dish if packaging is opened/damaged, or if DaVitri Dish sterilization or integrity is compromised.

Inspect DaVitri Station: Prior to use of the DaVitri Station, inspect the Station for integrity. If there is any damage to the Station, notify Overture Life, immediately.

Expertise: The System should only be used by embryologists or lab technicians who have expertise in handling oocytes and performing in vitro fertilization lab procedures.

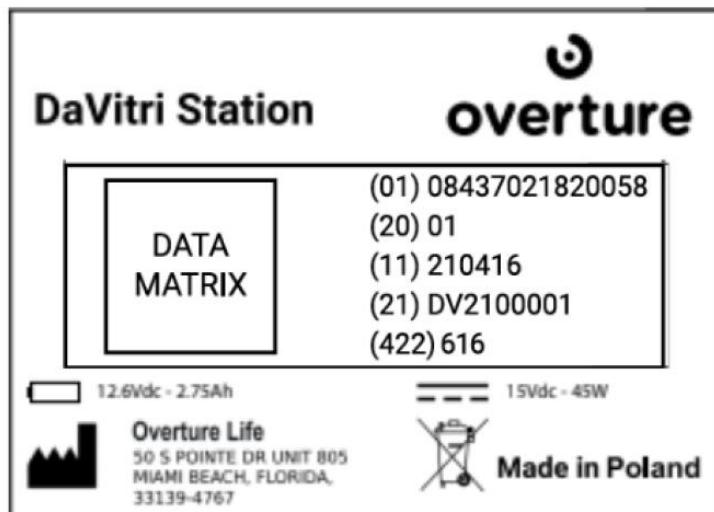
1.8. Support

For technical questions and support for the DaVitri System, email: info@overture.life.

1.9. Labeling

The Station must provide a label like the one shown in the picture placed at the bottom of the device.

DaVitri Station and DaVitri Dish (Unloaded).



Where the following fields are used:

(01) GTIN (20) Revision (11) Date of manufacturing (21) Serial Number (422) Origin ES

2. Power Supply

DaVitri has the following operational modes:



1. Mains Mode: DaVitri is connected to a universal (110 – 230 VAC) power supply. This is considered the normal operating mode. Charging of the battery can be active or not.



2. Charging Only Mode: DaVitri battery is charging (connected to a power source.) DaVitri is OFF and no user interaction is possible.



3. Battery Mode: DaVitri is operating on battery power and is not connected to an external power source. DaVitri can function in this mode and run the operating protocol (vitrification prep) in this mode for at least 6 hours when the battery is fully charged. The system will not function if the battery is insufficiently charged.

The icon for battery status is located on the top right corner of the screen, and will be highlighted when the battery is charging.

To switch on the unit either in battery or mains mode the power button located at the back cover must be pressed longer than 1 second.

The power button located at the back cover is illuminated and will light in three different colors:



Green: Unit plugged into mains and the battery is charging. The unit is switched off.



Light Blue: Unit plugged into mains and the battery is charging. The unit is switched on.



Blue: The unit is on without being plugged into the mains.

To switch off the unit, the user can either use the touch screen and access to the power off icon or press the power button located at the back cover from 0.5 to 1 second. The switch off process will be triggered.

CAUTION: In case the unit does not respond to described power off processes, the unit can be safely switched off by pressing the power button longer than 2 seconds.

DO NOT USE this process unless the unit is not responding to the described switch off process as the software will be shut down in an uncontrolled manner.

Safely disconnect the equipment from the power source by removing the voltage plug from the back cover of the unit or by unplugging the power supply from mains. It is important to familiarize yourself with the specific termination procedures. The mean used to electrically isolate the device from supply mains is the power supply plug.

2.1. Instructions on battery handling

The DaVitri System has internal batteries which allow for use of the System without connection to an AC power source. The Station should be charged before use. The battery will continually charge while the Station is connected to the AC power supply. The power cord connection is clearly marked and is located at the rear of the Station.

CAUTION: The battery cannot be replaced. The Station cannot be repaired or opened. There is no service operation allowed. In case of any fail the unit will be replaced by a new one by Overture Life.

3. Preparation and System Start-up

Before starting a pre-vitrification cycle, ensure that the following equipment and materials are available.

3.1. Materials list

The DaVitri Station works in conjunction with auxiliary lab equipment and consumables utilized by embryology labs.

The following is a list of equipment Overture recommends labs have on site to perform oocyte vitrification. This is not an exhaustive list:

Laminar flow hood

Stereoscope

Incubator

Liquid nitrogen storage tanks (Dewars)

Liquid nitrogen source

Pipettes

Micropipettes

Cooling rack

Vitrification media (Kitazato)

Cryogenic devices

Vitrification media (Kitazato)

3.2. Preparation of Media and Cooling Rack

DaVitri is ONLY compatible with vitrification media from Kitazato.

Prior to use, prepare the vitrification reagents as specified in the Kitazato protocols.
Prepare a cooling rack filled with liquid nitrogen.

Caution: Reagents should always be used at normal room temperature (~25°C).

Caution: Do not place the Station on a hot surface.

Caution: Handle with care. Be careful not to drop the Station.

Caution: Always place the Station on a firm, level surface inside a laminar flow hood. Avoid tilting the Station.

Caution: Do not place the Station near a liquid nitrogen container.

Caution: Handle all equipment with dry hands.

3.3. Set Up Instructions

1

Perform an inspection of the DaVitri Station to ensure there is no visible damage to the unit.

2

Perform visual inspection of the DaVitri Dish packaging, looking for any visual damage which might compromise the sterilization of the DaVitri Dish. If damage is seen, discard the DaVitri Dish and use an undamaged unit.

- 3 Verify the DaVitri Dish being used is within the use-by date.
- 4 Place the DaVitri Station onto the surface within the laminar flow hood in the embryology lab.

The DaVitri Station can operate using battery power, or while plugged into an AC electrical source. If using DaVitri while plugged in, connect the power cord to the back of the DaVitri station and to a 110 – 230 VAC electrical source.

INFO: If using DaVitri on battery mode, ensure the battery is fully charged. It is recommended to charge the battery when not in use or at least once a day.

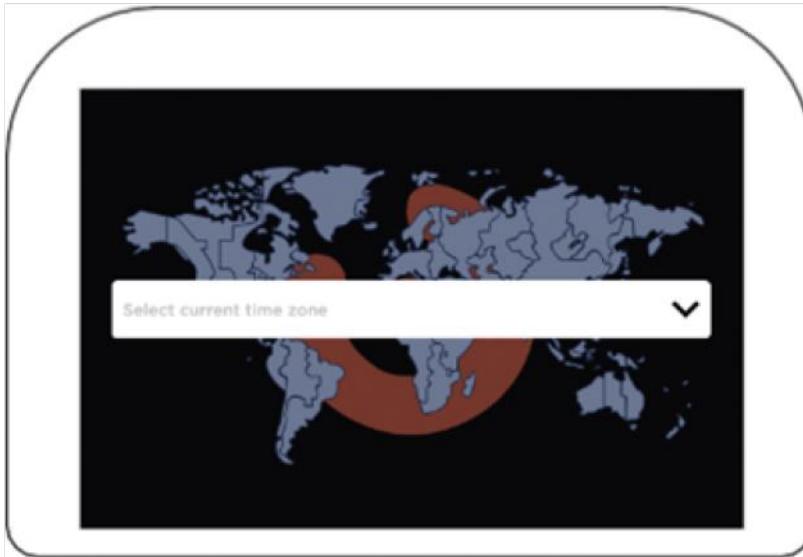
- 5 Switch on the power button located at the lower back of the DaVitri Station. The Station will power on and show a startup screen.



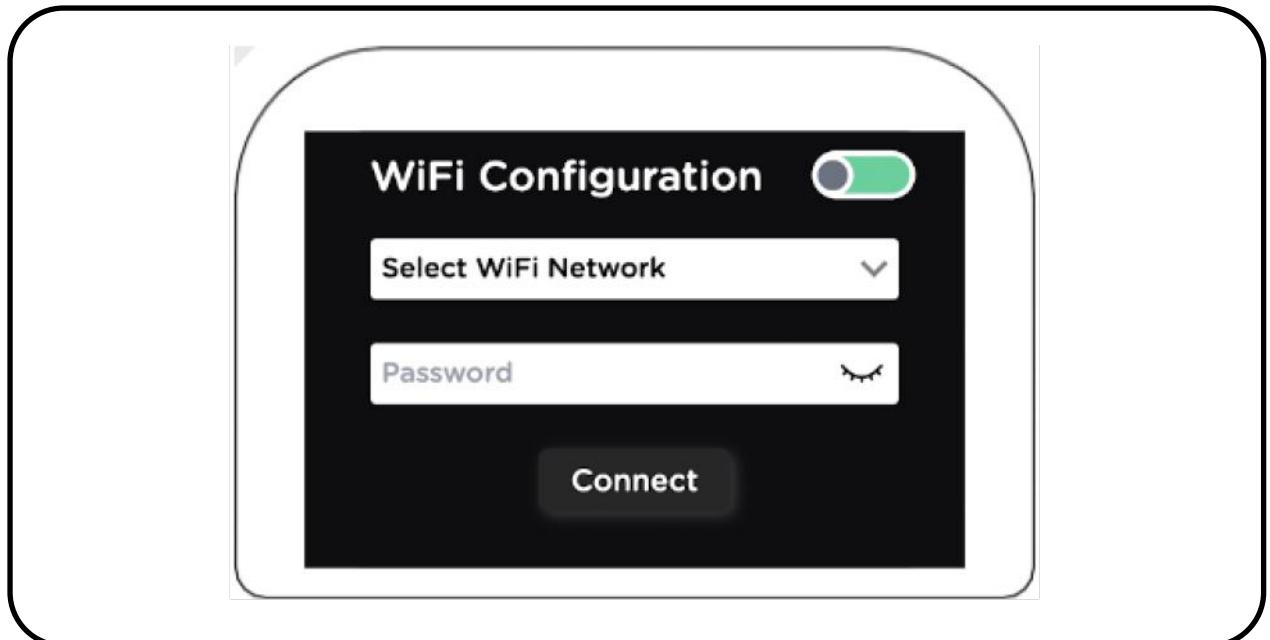
3.4. First Use Instructions

When turning on the DaVitri for the first time, a specific procedure is required for User registration:

- 1 Open the email from cloud@overture.life. Follow the instructions and change your Login and password.
- 2 Turn your DaVitri by pressing the button located in the back of the device.
- 3 Select your timezone.



- 4 As requested in the display, connect the DaVitri to your wifi using the keyboard.



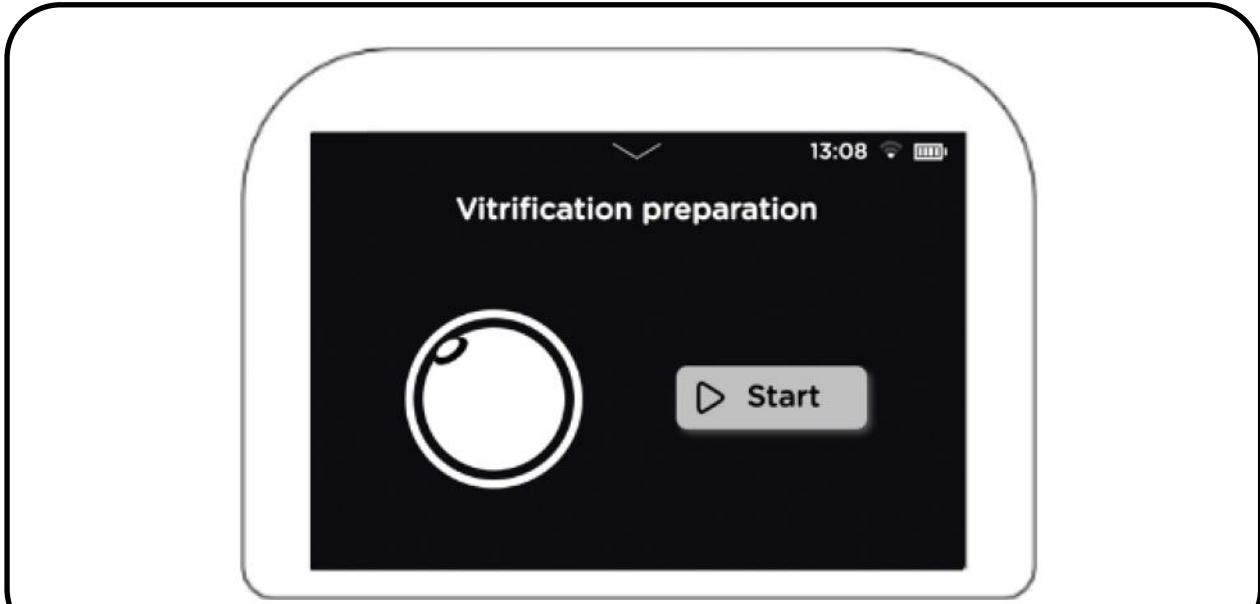
5

After this step you will land on the DaVitri home screen, ready to start using it.



3.5. Home Screen

From the Home screen, the user can launch a new Vitrification preparation protocol by pressing the “New protocol” button. The user can also swipe down the arrow on the top of the screen to access the setting menu.



3.6. Handling of Vitrification Media

3.6.1. Instructions for storing the reagents

DaVitri is ONLY compatible with vitrification media manufactured by Kitazato. Media should be stored following the Kitazato instructions for use.

3.6.1. Instructions for storing the reagents

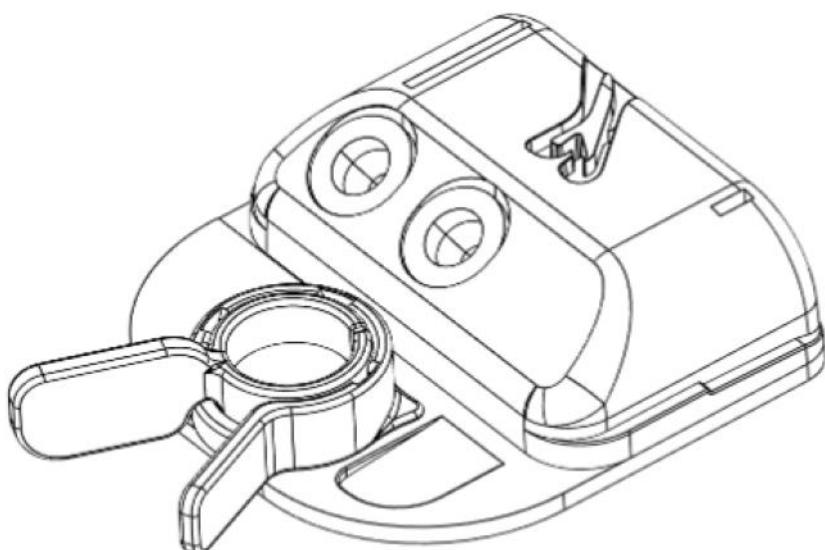
Storage and preparation of media for vitrification should be in accordance with the reagent instructions for use. When reagents are loaded into the reservoirs of the DaVitri Dish, they should be at the temperature specified in the Kitazato instructions for use.

4. Instructions for Use

4.1. DaVitri Dish labeling

Refer to DaVitri Dish Instructions for use included in the DaVitri Dish package to have detailed information about labeling.

Before inserting the DV Dish in the DaVitri for a new vitrification protocol, label the Dish with the patient identification number on the right side of the reservoir following the standard operating procedure of the clinic.



4.2. Oocyte Vitrification Preparation

a

Once all materials are gathered, select “Start”. Note: ES=Equilibration Solution (Kitazato Vitrification Kit), and VS = Vitrification Solution (Kitazato Vitrification Kit). The touchscreen will indicate when to “Insert the DaVitri Dish”.

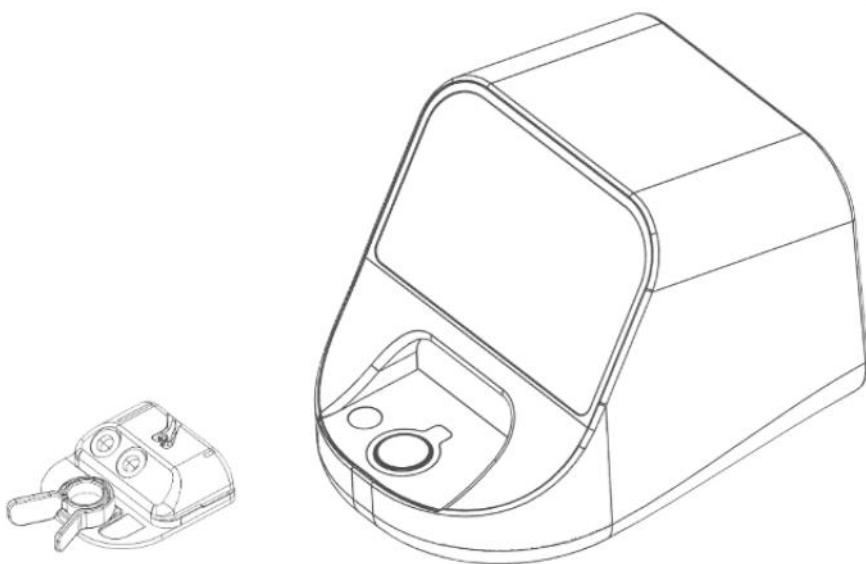
Note: ES=Equilibration Solution (Kitazato Vitrification Kit), and VS = Vitrification Solution (Kitazato Vitrification Kit).

The touchscreen will indicate when to "Insert the DaVitri Dish".



b

Insert the DaVitri Dish into the DaVitri Station.



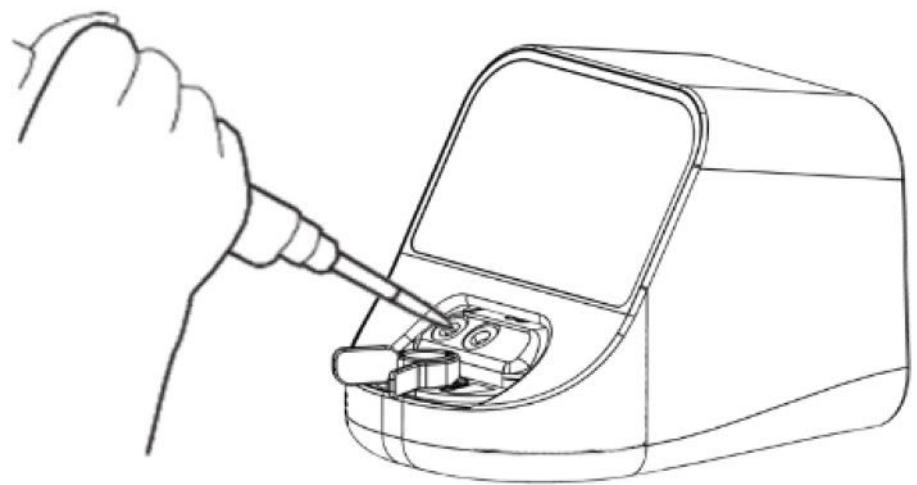
A “click” sound will be heard when the DaVitri Dish is properly inserted.

Caution: Ensure the dish is fully inserted.

c

Fill the reservoirs of the DaVitri Dish. Add 150 μL of Equilibration Solution (ES) into the right reservoir. Select “Next” once the first reservoir is filled. Add 150 L of Vitrification Solution (VS) into the left reservoir. Select “Done” once the second reservoir is filled. Utilize a standard lab pipette for loading the solutions. Pierce the elastomeric cap with the pipette to load the ES and VS solutions.

Note: Use standard laboratory tools to assure proper handling.

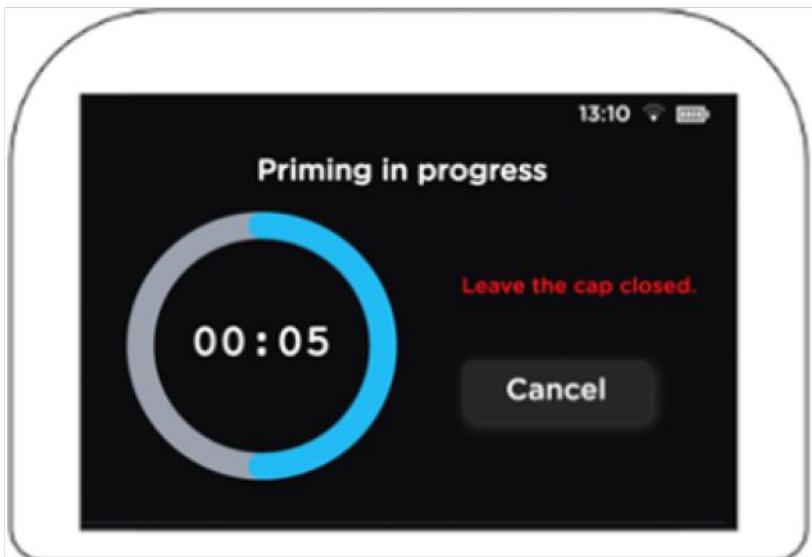




d

When ready, press the “Start” button to initiate the Priming cycle where the microfluidic channels of the DaVitri Dish are filled with vitrification reagents. The touch screen will indicate progress and completion of the Priming step. This will take approximately 1 minute.

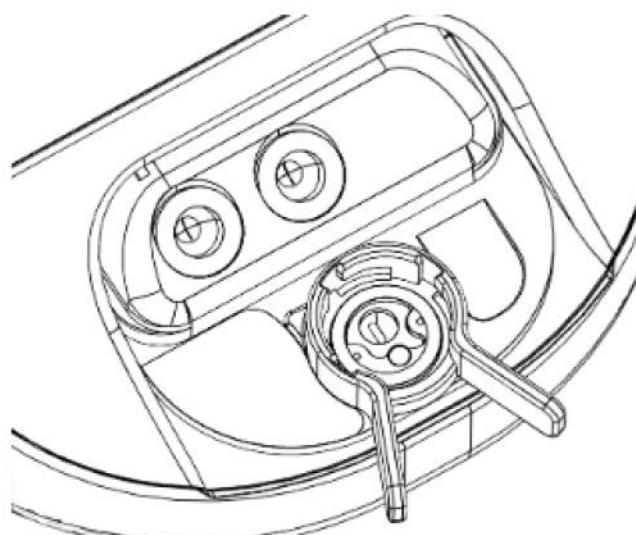
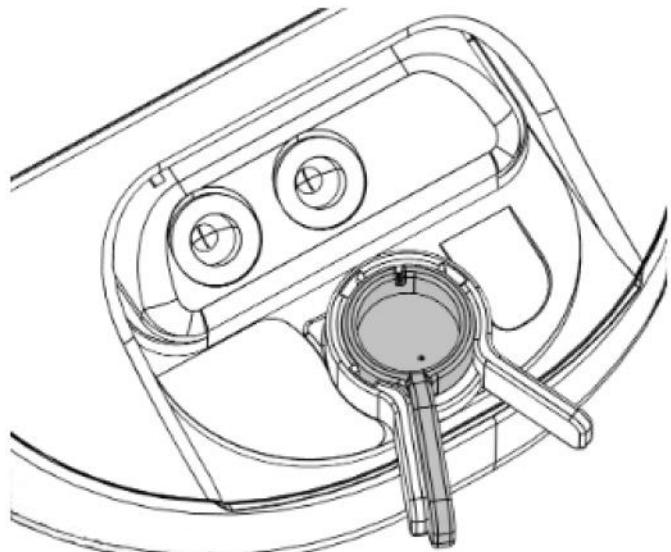
Caution: Do not introduce cells during the priming. The cap that covers the Da Vitri Dish central well must remain closed the entire priming process.



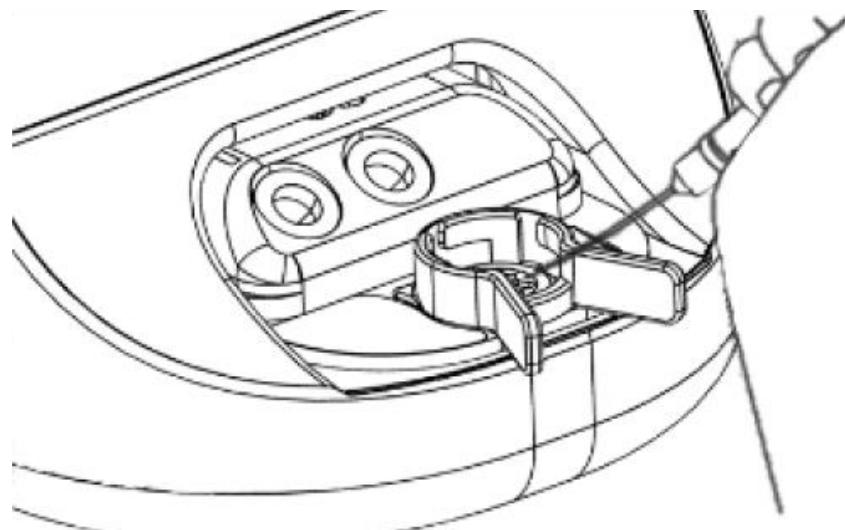
e

Once the priming process is done, you have up to 5 min to introduce the oocytes and start the protocol. This step should be done under the stereoscope with the station positioned over the light source for correct visualization of the samples. Note: Make sure that you feel comfortable with the position of the DaVitri Station and the stereoscope before loading the samples. It will enhance your experience with the DaVitri device and will make it easy to work with samples during the protocol. Using a standard lab grade pipette, retrieve fresh denuded oocytes from a petri dish. Open the central cap of the dish, place the samples into the bottom of the center well of the DaVitri Dish and close the cap. Overture recommends use of a stripper, EZ-Grip or similar, to transfer oocytes to the well. Up to four oocytes may be loaded onto the center of the well.

1. Open the cap.



2. Load samples and close the cap.



Caution: Placement of the oocytes should be confirmed with a microscope.

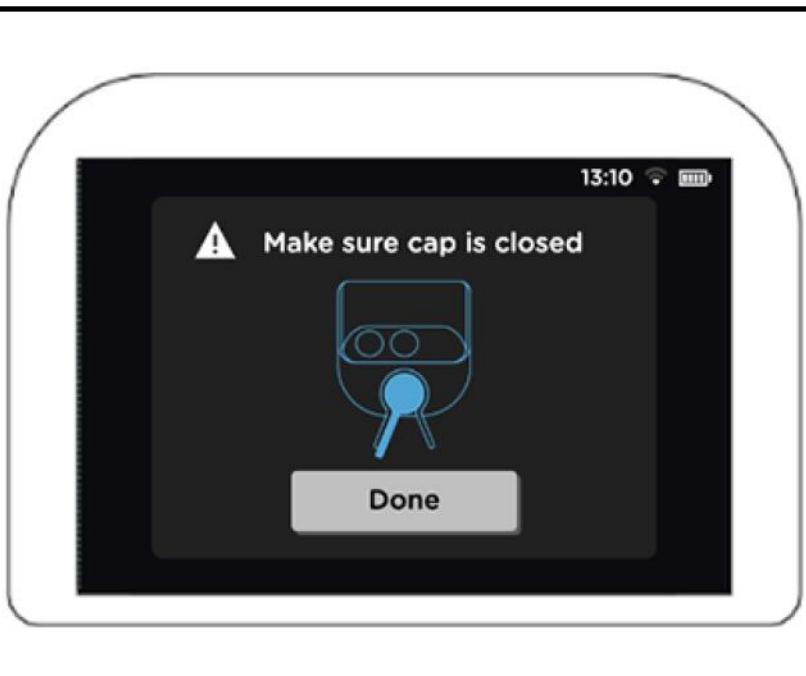
Note: To improve the user experience, load the four oocytes at the recommended position and close to each other. This would facilitate the loading of the oocytes on the cryostorage device.

f

Select “Done” on the touch screen once the oocytes have been loaded and the cap is closed.

g

A warning message will appear to remind you that the cap must be closed before proceeding. Once “Done” is pressed the protocol will begin.



Caution: Do NOT load oocytes from different patients into the DaVitri Dish.

Caution: Do NOT load more than 4 oocytes into the well.

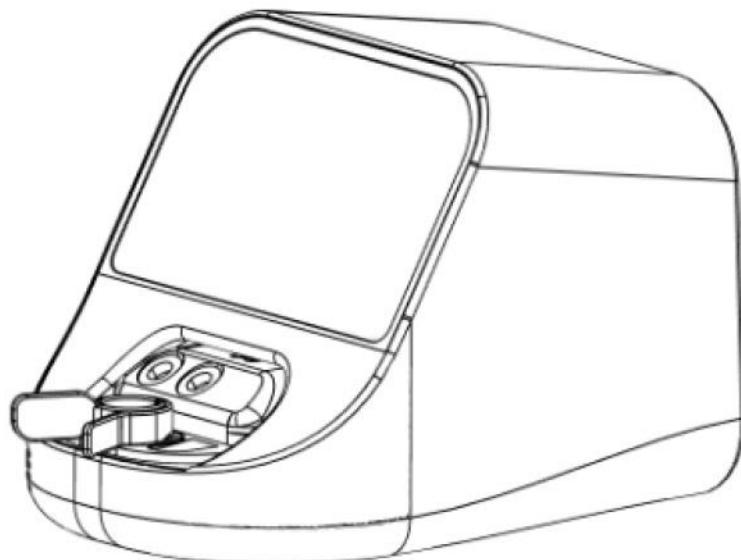
Caution: Ensure oocytes are denuded prior to placement onto the center well.

Caution: Oocytes may need to be cultured prior to vitrification, refer to standard lab protocols for processing of oocytes after retrieval.

Caution: While the protocol is running, the stereoscope light should be switched OFF to avoid damaging the sample.

The Vitrification cycle will initiate and continue for approximately 12 minutes. The touch screen will provide the status of the cycle and a countdown of the remaining time.

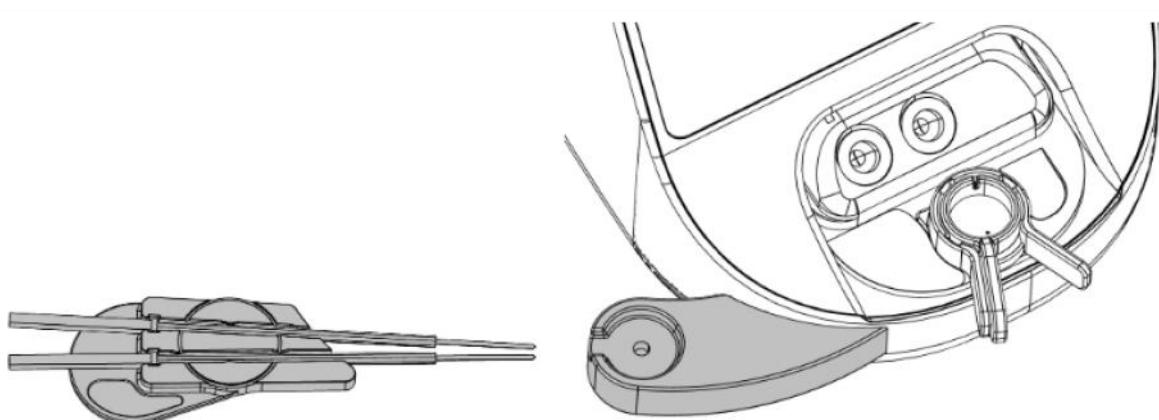
During the cycle, vitrification reagents will flow through the center well containing the oocytes.

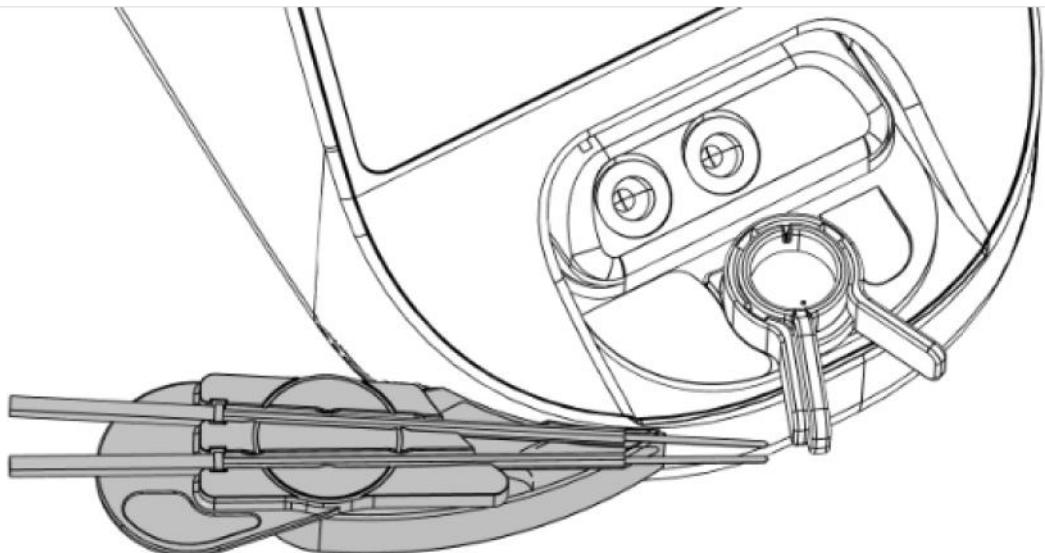




h

A reminder will be shown when there is 1 minute left in the screen's countdown. Prepare yourself for the retrieval of the oocytes. Prepare the cryo storage device and place it in the cryo storage device holder.

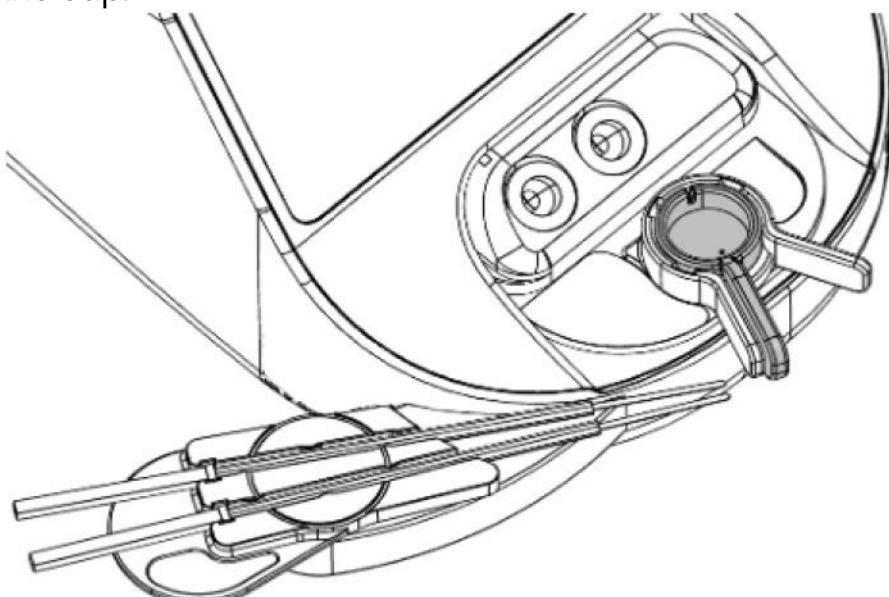


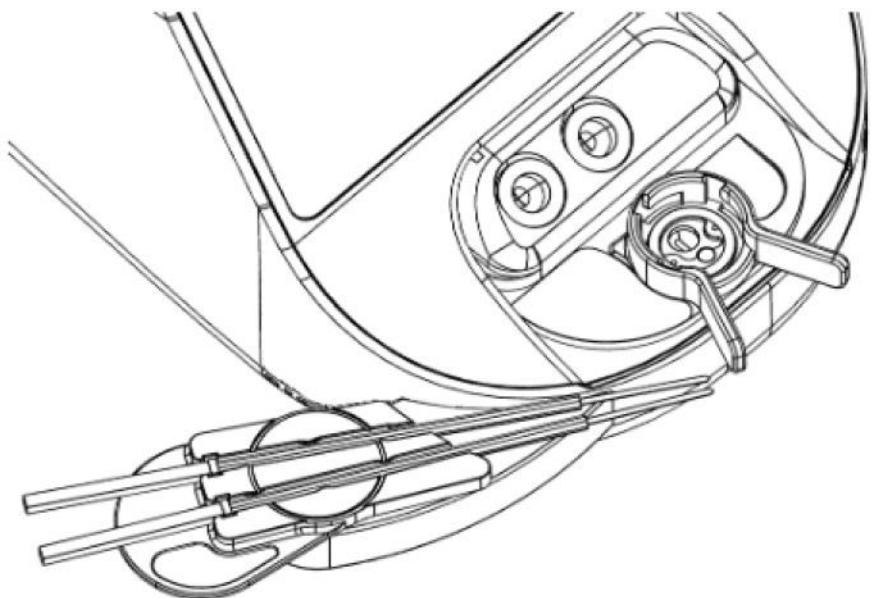


i

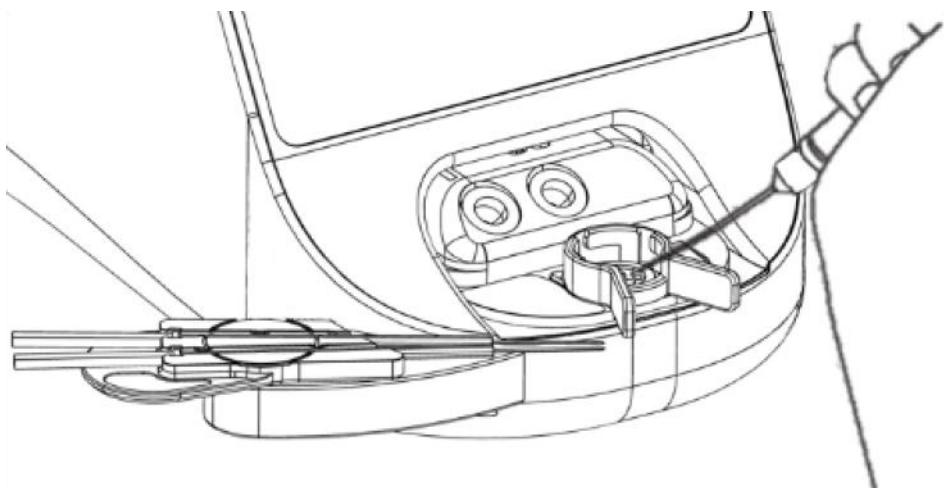
Once the countdown is over an alarm sound will signal that it is time to open the cap. The screen will switch to a count up, indicating the time to remove the samples using the stripper and load them into the cryo storage device, following the Kitazato protocol.

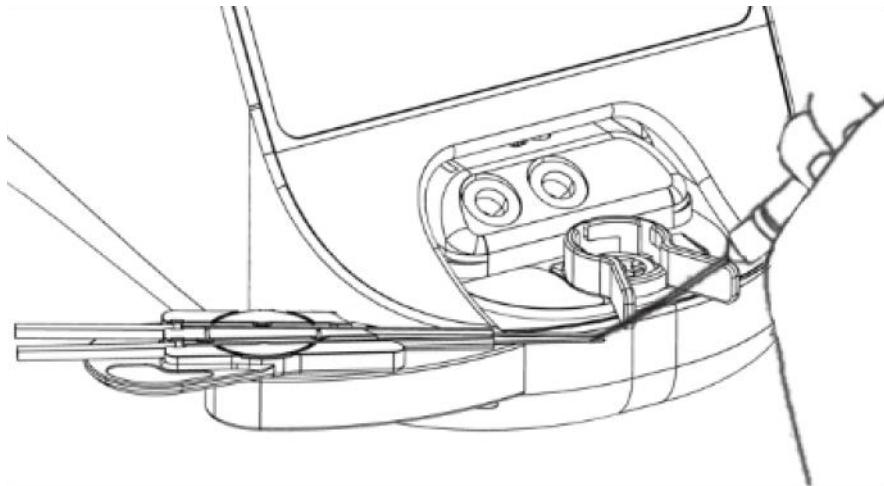
1. Open the cap.





2. Load samples in cryo storage device.





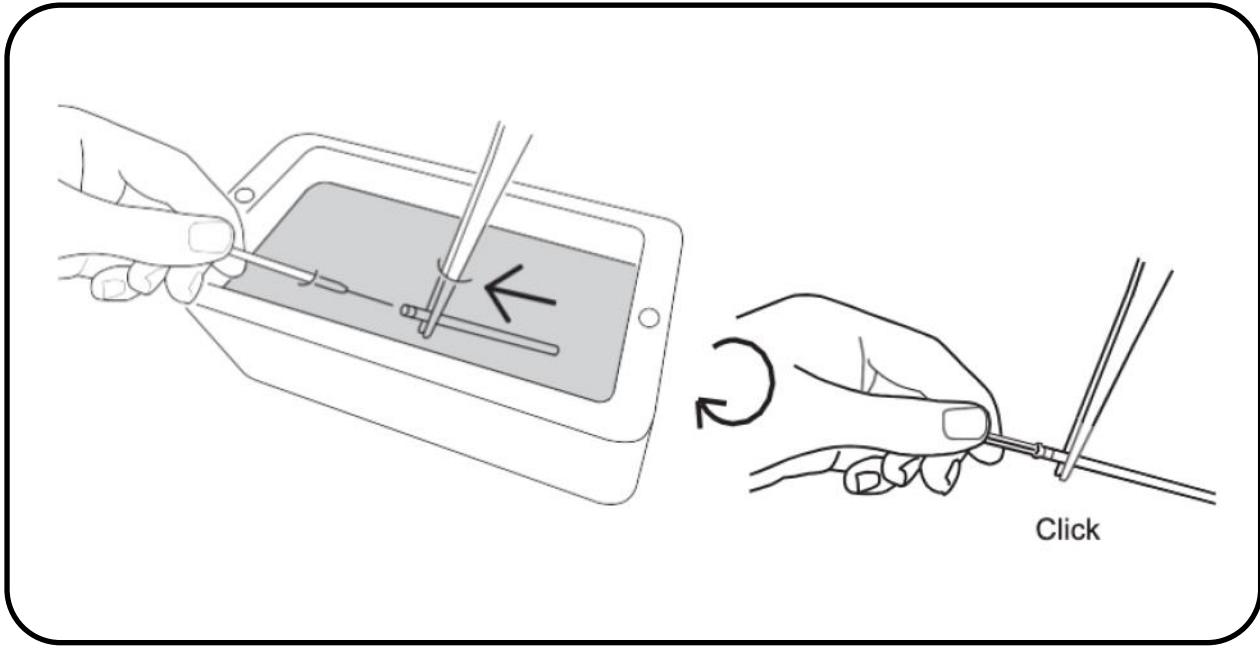
j

When the protocol is finished, the alarm will sound more frequently indicating that it is time to plunge the cryo storage device into liquid nitrogen, moving it back and forth to allow temperature equilibration.



k

To complete the cryopreservation protocol, the cryo storage device with the samples is capped in the LN2 tank. This should be done with LN2 covering the entire cap and lower part of the cryotop. For complete insertion of the cryotop into the cap, rotate the cryotop to seat it in the cap.



l

After loading the cryotop into the LN2 tank, click DONE on the touch screen to silence the alarm. A message will appear on the screen to remind the user to discard the DaVitri Dish.



4.3. Removal and Disposal of the DaVitri Dish

Remove DaVitri Dish from the Station by first pressing in to open the latch mechanism and then withdrawing the dish from the Station. Discard the DaVitri Dish into a biohazard container, or wherever used embryology consumables are discarded.

Note: Discard the DaVitri Dish loaded with used vitrification media. Do not empty the DaVitri Dish, or the fluid reservoirs prior to discarding.

4.4. WIFI Connection

The DaVitri Station is equipped with WiFi capabilities.

The main purpose of this connection is to provide access to software updates but also error logging for customer support purposes. If the station is connected to a

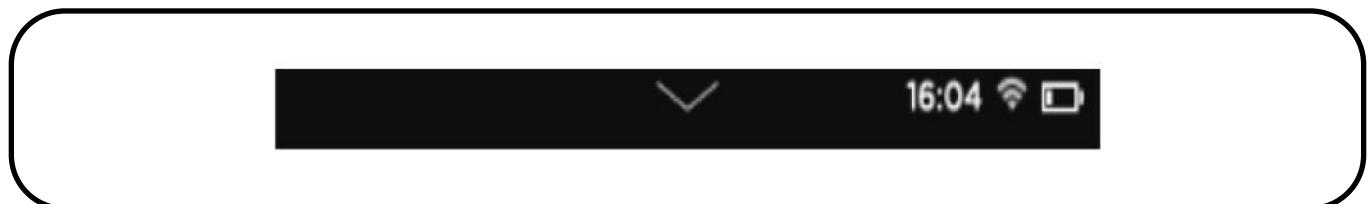
wireless network it will check periodically if any software update is available and will prompt the user to proceed with the update. Users will then accept or reject this update.

- In case the user rejects the update a reminder will be displayed any time the station is restarted.
- In case the station is not connected to a wireless network for more than 3 months a reminder will be displayed any time the station is restarted.

The DaVitri does not need to be connected to the internet to work properly. DaVitri does not store any patient information.

The DaVitri does not need to be connected to the internet to work properly.

DaVitri does not store any patient information.



Users can access the wifi configuration page by clicking on the Wifi button (top left).



Local WIFI options will be displayed.



Enabling/disabling of the wireless interface is performed by clicking on the top right selection button. To connect to a WiFi network, first enable the interface by clicking on the button. Then select the chosen network, enter the network password and press the Connect button.

The station will automatically connect to the secure Overture updates website. Once connected to the Overture updates server, the device will check for any pending update. If an update is available, the device will prompt the user to proceed with the update process if desired.

If the user accepts the update process will run automatically. The station will download the needed software packages in background and once everything is ready the software will be updated. The display will show the update progress.

The station will reboot and will be ready for normal use.

- It is required to have the station connected to the AC power when this process is performed.

To disconnect DaVitri from the WiFi network, click on the upper right corner of the display to de-select the Wifi option.

4.5. Cybersecurity

The customer is responsible for setting up and maintaining a secure and stable IT environment according to general IT standards. Your strategy should address the following industry-standard practice:

- Physical security (e.g., do not allow unauthorized people to use Overture DaVitri);
- Operational security (e.g., make sure that users of Overture DaVitri do not leave the open system unattended);
- Security policies (e.g., make sure that the Overture DaVitri Documentation is securely stored).

5. Cleaning and Disinfection

Power off the Station and clean the station with the same cleaning agents used for cleaning/disinfecting the lab hood. Prepare a non-shedding towel with the cleaning agent and carefully wipe down the Station. Place Station back in storage or begin a new cycle.

Caution: Be careful not to spray or spill the cleaning agents directly onto the Station as this may damage internal circuitry.

Caution: Do not use a cleaning agent containing an alcohol.

6. Regulatory / Info / Classification

Protection / insulation Class (electric shock)	Class II, internally powered Equipment
Degree of protection against risk of electric shock	B
Power	External (AC) or internal (DC - battery)
Operation mode	Continuous Operation
Protection against harmful ingress of water or particulate matter	IP41

7. Conditions of Use and EMC Guidelines

The environmental operating conditions for DaVitri Station & DaVitri Dish are:

- Temperature range: 69.8F (21°C) to + 80.6F (27°C).
- Relative humidity: 0% to 85%.
- Air pressure: 800 hPa to 1060 hPa.

The Davitri station is intended to be used by trained personnel and in a proper environment such as:

- Intended Medical Facility: The IVF device is designed for use in a medical facility, such as hospitals, fertility clinics, or specialized reproductive centers. It must only be operated by trained medical personnel to ensure safe and effective use.
- Dedicated Gynecology Examination Rooms: The IVF device should be utilized in specially designated fertility treatment areas within the medical facility equipped with a laminar flow hood to maintain a sterile environment, which is crucial for the success of IVF procedures.

The medical device may be sensitive to electromagnetic interference, but has been tested to comply with EMC standards described below.

The device is designed to partially automate the pre-vitrification process of oocytes, ensuring accuracy, reliability, and efficiency.

It includes the following key features:

a

Precise Temperature Monitoring: The device monitors temperature conditions necessary for the vitrification process, ensuring the viability and quality of oocytes. It incorporates temperature sensors and feedback mechanisms to monitor temperatures within specified parameters. In case temperature is out of specified parameters a warning is displayed on the screen (described at section 10. Precautions and troubleshooting. Error and warnings messages).

b

Process Automation: The device automates critical steps involved in the pre-vitrification process, reducing the potential for human error and variability. It is designed to ensure consistent and repeatable outcomes, optimizing the success rates and reliability of oocyte vitrification.

c

Real-time Monitoring: The device provides real-time monitoring of crucial parameters such as temperature, pressure, and time, allowing operators to track the progress of the pre-vitrification process and intervene if necessary. When parameters are relevant, they are shown on the screen. In case of error, warnings or recommendation, different messages will be shown on the screen. For further information, consult section 10. Precautions and troubleshooting. Error and warnings messages.

d

Data Management: The device includes a comprehensive data management system to record and store internal parameters information related to each vitrification cycle as pressure, temperature, power or timings.. It allows for traceability and facilitates quality control, research, and analysis for technical service.

To ensure proper functioning , follow the guidelines. Failure to follow the guidelines may result in inaccurate readings or malfunctioning of the device.

1. Keep the device away from strong electromagnetic fields, such as power lines, radio transmitters, and large electrical appliances.

2. Do not use the device in close proximity to or stacked with other electronic equipment that may generate electromagnetic interference.
3. If you suspect interference from nearby devices, try relocating the medical device to a different area within the laminar flow hood.
4. If the interference persists, consult the manufacturer or qualified technical personnel for assistance.
5. The use of accessories, transducers or cables not specified or provided by Overture Life may negatively affect EMC performance.
6. Portable RF communications equipment including antennas should be used no closer than 30 cm (12 inches) to any part of the device, including cables specified by the manufacturer. Otherwise, degradation of the performance of this equipment could result.

Recommended distances to portable or mobile RF communications devices

The equipment is intended for use in an electromagnetic environment in which RF radiations are controlled. Users can help prevent electromagnetic interference by maintaining a minimum distance between portable or mobile RF communications devices (transmitters) and the equipment as recommended below, according to the maximum output power of the communications devices.

	Distance according to the frequency of the transmitter (m)		
Maximum power output of the transmitter (W)	150 kHz to 80 KHz $d = 1.17 \sqrt{P}$	80 MHz to 800 MHz $d = 1.17 \sqrt{P}$	800 MHz to 2.5 GHz $d = 2.33 \sqrt{P}$
0.01	0.12	0.12	0.23
0.1	0.38	0.38	0.74
1	1.2	1.2	2.3
1	1.2	1.2	2.3

For transmitters with a maximum output power not listed above, the recommended distance d in meters (m) can be determined using the equation applicable to the transmitter frequency, where P is the maximum power output in watts (W) according to the manufacturer of the transmitter.

NOTE 1: At the frequencies of 80 MHz and 800 MHz, the distance is applied for the highest frequency range.

NOTE 2: These guidelines cannot be applied in all situations. Electromagnetic propagation is affected by absorption and reflection.

7. All the mentioned warnings and instructions must be followed for maintaining basic safety and performance with regard to electromagnetic disturbances.
8. To prevent adverse events to the patient and operator due to electromagnetic disturbances, all the indications contained in this manual must be followed.

Overture Life guarantees the well function of the device while all these indications are being followed.

- Failure to follow these guidelines may result in inaccurate readings or malfunctioning of the device.
- Unauthorized modifications of the equipment could result in dangerous, damage or harm for samples, patients or operators, such as inaccurate readings, malfunction, loss of samples or, in the worst case, electrostatic or magnetic discharges that could cause the death of operators.

The device complies with the following standards regarding electromagnetic compatibility:

UNE-EN 60601-1-2:2015 + A1:2021

UNE-EN 55011:2016 +A1:2017+A2 :2021

UNE-EN IEC 61000-3-2:2019+A1:2021

UNE-EN 61000-3-3:2013+A1:2020+A2:2022

UNE-EN 61000-4-2:2010

UNE-EN IEC 61000-4-3:2020

UNE-EN 61000-4-4:2013

UNE-EN 61000-4-5:2015+A1:2018

UNE-EN 61000-4-6:2014

UNE-EN 61000-4-8:2011

UNE-EN IEC 61000-4-11:2021

IEC 61000-4-39:2017

Disturbance voltage limits for class B group 1 equipment measured on a test site (a.c. mains power port)

Frequency range (MHz)	Quasi - peak [dB (μ V)]	Average [dB (μ V)]
0.15 - 0.50	66 Decreasing linearly with logarithm of frequency to 56	56 Decreasing linearly with logarithm of frequency to 46
0.50 - 5	56	46
5.30	60	50

At the transition frequency, the more stringent limit shall apply.

Electromagnetic radiation disturbance limits for class B group 1 equipment measured on a test site

	OATS or SAC		FAR
	10 m measuring distance	3 m measuring distance	3 m measuring distance
Frequency range (MHz)	Quasi - peak [dB (μ V/m)]	Quasi - peak [dB (μ V/m)]	Quasi - peak [dB (μ V/m)]
30 - 230	30	40	42 Decreasing linearly with logarithm of frequency to 35
230 - 1000	37	47	42

Enclosure port

		Immunity test levels	
Phenomenon	Basic EMC standard or test method	Professional healthcare facility enviroment	Home healthcare enviroment
Electrostatic discharge	IEC 61000-4-2	\pm 8 kV contact \pm 2 kV, \pm 4 kV, \pm 8 kV, \pm 15 kV air	
Radiated RF EM fields	IEC 61000-4-3	3 V/m 80 MHz - 2,7 GHz 80% AM at 1 kHz	10 V/m 80 MHz - 2,7 GHz 80% AM at 1 kHz

Proximity fields from RF wireless communications equipment	IEC 61000-4-3	See 8.10.
Rated power frequency magnetic fields	IEC 61000-4-8	30 A/m 50 Hz or 60 Hz

Input a.c. power port

Phenomenon	Basic EMC standard	Immunity test levels	
		Professional healthcare facility environment	Home healthcare environment
Electrical fast transients / bursts	IEC 61000-4-4	± 2 kV 100 kHz repetition frequency	
Surges Line-to-Line	IEC 61000-4-5	± 0.5 kV, ± 1 kV	
Surges Line-to-Ground	IEC 61000-4-5	± 0.5 kV, ± 1 kV, ± 2 kV	
Conducted disturbances introduced by RF fields	IEC 61000-4-6	3V 0.15 MHz – 80 MHz 6 V in ISM bands between 0.15 MHz and 80 MHz 80% AM at 1 kHz	3V 0.15 MHz – 80 MHz 6V in ISM and amateur radio bands between 0.15 MHz and 80 MHz 80% AM at 1 kHz

Voltage dips	IEC 61000-4-11	0% UT, 0.5 cycle At 0°, 45°, 90°, 135°, 180°, 225°, 270° and 315°
		0% UT, 1 cycle and 70% UT, 25/30 cycles Single phase: at 0°
Voltage interruptions	IEC 61000-4-11	0% UT, 250/300 cycle

Test specifications for ENCLOSURE PORT IMMUNITY to RF wireless communications equipment

Test frequency (MHz)	Band (MHz)	Service	Modulation	Maximum power (w)	Distance (m)	Immunity test level (v/m)
385	380-390	TETRA 400	Pulse modulation 18 Hz	1.8	0.3	27
450	430 - 470	GMRS 460, FRS 460	FM ± 0.5 kHz deviation 1 Hz sine	2	0.3	28
710	704 - 787	LTE Band 13, 17	Pulse modulation 217 Hz	0.2	0.3	9
745						
780						

810	800 - 960	GSM 800/900, TETRA 800, IDEN 820, CDMA 850, LTE Band 5	Pulse modulation 18 Hz	2	0.3	28
870						
930						
1720	1700 - 1900	GSM 1800, CDMA 1900, GSM 1900, DECT, LTE Band 1, 3, 4, 25; UMTS	Pulse modulation 217 Hz	2	0.3	28
1845						
1970						
2450	2400 - 2570	Bluetooth, WLAN, 802.11 b/g/n, RFID 2450, LTE Band 7	Pulse modulation 217 Hz	2	0.3	28
5240	5100 - 5800	WLAN 802.11 a/n	Pulse modulation 217 Hz	0.2	0.3	9
5500						
5785						

Additionally, the equipment could be affected by proximity to magnetic fields in frequency range 9KHz to 13.56MHz. Do not use the unit in presence of these disturbances to assure proper device functioning. contac@.

To ensure safe disconnection (if necessary), it is important to properly position the equipment. Follow these guidelines:

1. Place the equipment in a well-lit and easily accessible area, free from any obstructions.
2. Ensure that there is sufficient space around the power connections to allow for easy reach and operation.
3. Avoid positioning the equipment in cramped or confined spaces that may impede access to the disconnection device.
4. Do not place any objects or materials that may obstruct or cover the disconnection device.

It is crucial to follow these instructions to maintain the usability and functionality of the disconnection device. Failure to do so may result in difficulties or delays in disconnecting the equipment during emergencies or maintenance procedures.

8. Storage and Transport Conditions

DaVitri Station is a device intended to be settled in a lab. In case it has to be transported, Overture Life recommends that the transport is performed on its original packaging, as the right way to ensure its integrity along the transport and to avoid any damage to the device.

The Environmental transport and storage conditions for the Station are:

- Temperature range: 41F (5oC) to 104F (40oC).
- Relative humidity: up to 20% to 85%.

The Environmental transport and storage conditions for the DaVitri Dish are:

- Temperature range: 50F (5oC) to 104F (40oC).
- Relative humidity: 20% to 85%.

9. Maintenance

There are no user serviceable parts within the DaVitri Station. Should any issues arise with the device, contact Overture Life, SL, 50 South Pointe Dr Unit 805, Miami Beach, Florida, 33139-4767.

Email: info@overture.life

10. Station Disposal



Instructions for disposal of electronics.

Electronic parts inside the station, including the batteries, must be disposed of as per local regulations. Once the station is no longer in use, or if it is damaged, it must be sent back to Overture Life for proper disposal. The batteries cannot be removed by the user from the station; thus, disposal of the Station will include disposal of the batteries.

Email info@overture.life to coordinate return of damaged or non-functional equipment.

11. Precautions and Troubleshooting

Warning: Use reagents between T=23°C and 27°C.

Warning: Do not put the device on a hot surface. Risk of bubble creation in the dish due to the heat.

Warning: Handle with care. Be careful not to drop the Station.

Warning: Handle device with dry hands.

Warning: Ensure the dish is well inserted.

Warning: Use standard laboratory tools.

Warning: Do not tilt the station.

Warning: Do not introduce cells during the priming.

Warning: Do not exceed 10 min between finishing the priming and the use of the device.

Warning: Do not place the Station near a liquid nitrogen container.

Warning: Be careful when extracting the dish.

Warning: Keep your Overture DaVitri credentials (combination of your Email address and password) secure and don't share them with others.

IMPORTANT: In the event of abnormal operation, immediately stop using the DaVitri Station and contact Overture Life service. If it is not possible to locate or eliminate the problem using this section, or if the dysfunction is still present, switch off the device and contact Overture Life.

ERROR MESSAGE

RECOMMENDATIONS

**Critical Error 01.
DaVitri unable to work
properly, please call
service.**

Does it occur BEFORE samples are loaded? If YES, discard the Dish, restart the DaVitri Station and repeat the operation again. If the error persists, stop using DaVitri Station and call service.

Does it occur AFTER samples are loaded? If YES, recover the samples and continue with the protocol manually. Then, restart the DaVitri Station. If error persists, stop using DaVitri Station and call service.

System temperature outside nominal range.	<p>Does it occur BEFORE the media are loaded? If YES, wait until the room temperature is in the working range (21-28oC). If the error persists, stop using DaVitri Station and call service.</p> <p>Does it occur AFTER the media are loaded AND BEFORE the samples are loaded? If YES, discard the dish, and repeat the process again. If the error persists, stop using DaVitri Station and call service.</p> <p>Does it occur AFTER samples are loaded? If YES, recover the samples and continue with the protocol manually. Then, restart the DaVitri Station.</p> <p>If error persists, stop using DaVitri Station and call service.</p>
System temperature outside nominal range. The system will shut down to protect the system.	<p>Does it occur BEFORE the media are loaded? If YES, wait until the room temperature is in the working range (21-28oC). If the error persists, stop using DaVitri Station and call service.</p> <p>Does it occur AFTER the media are loaded and before the samples are loaded? If YES, discard the dish, and repeat the process again. If the error persists, stop using DaVitri Station and call service.</p> <p>Does it occur AFTER the samples are loaded? If YES, recover the samples and continue with the protocol manually. Then, restart the DaVitri Station.</p> <p>If error persists, stop using DaVitri Station and call service.</p>
Battery level too low. Please charge the Davitri for at least 15 minutes.	Charge the Davitri for at least 15 minutes.
Battery level is critical. The system will shut down imminently.	Charge the Davitri for at least 15 minutes.

Dish removed during protocol. Does it occur BEFORE the samples are loaded? If YES, discard the Dish, restart the DaVitri Station and repeat the operation again. If the error persists, stop using DaVitri Station and call service.

Protocol aborted.

The protocol can not be guaranteed.

Does it occur AFTER the samples are loaded? If YES, recover the samples and continue with the protocol manually. Then, restart the DaVitri Station. If error persists, stop using DaVitri Station and call service.

Communication Error 01

When this error appears, the well can be illuminated by a blinking red led. This signal indicates that the display could be not responding.

Communication Error 02

Communication Error 03

Communication Error 04

Restart the DaVitri Station and repeat the process again. If the error persists, stop using DaVitri Station and call service.

WARNING MESSAGE	DESCRIPTION AND RECOMMENDATIONS
Sensor warning. The protocol can not be guaranteed.	<p>Does it occur BEFORE the samples are loaded? If YES, discard the Dish, restart the DaVitri Station and repeat the operation. If the error persists, stop using DaVitri Station and call service.</p>
	<p>Does it occur AFTER the samples are loaded? If YES, recover the samples and continue with the protocol manually. Then, restart the DaVitri Station. If error persists, stop using DaVitri Station and call service.</p>
Pressure warning 01 to 04. The protocol can not be guaranteed.	<p>Does it occur BEFORE the samples are loaded? If YES, discard the Dish, restart the DaVitri Station and repeat the operation again. If the error persists, stop using DaVitri Station and call service.</p>
	<p>Does it occur AFTER the samples are loaded? If YES, recover the samples and continue with the protocol manually. Then, restart the DaVitri Station. If error persists, stop using DaVitri Station and call service.</p>
The inclinometer is not operational.	<p>Restart the DaVitri Station and repeat the operation again. If the error persists, stop using DaVitri Station and call service.</p>
Please return the DaVitri to a stable position. Current inclination might affect the procedure.	<p>Check the integrity of the samples under the microscope before continuing.</p>
Impact detected. Please avoid impacts.	<p>Check the integrity of the samples under the microscope before continuing.</p>

Working temperature is out of range. Please check environmental conditions.	Does it occur AFTER the media are loaded and before the samples are loaded? If YES, discard the dish, and repeat the process again. If the error persists, stop using DaVitri Station and call service.
The protocol will continue until the end.	Does it occur AFTER the samples are loaded? If YES, recover the samples and continue with the protocol manually. Then, restart the DaVitri Station. If error persists, stop using DaVitri Station and call service.
Battery temperature is outside the nominal range. Charge will restart when temperature is within range.	If protocol is running, finish it as soon as possible. Then, switch off the DaVitri, wait 15 minutes, and restart the unit. If the error persists, stop using DaVitri Station and call service.
Internal device temperature is outside the nominal range.	If protocol is running, finish it as soon as possible. Then, switch off the DaVitri, wait 15 minutes, and restart the unit. If the error persists, stop using DaVitri Station and call service.
Battery values outside valid range.	If protocol is running, finish it as soon as possible. Then, switch off the DaVitri, wait 15 minutes, and restart the unit. If the error persists, stop using DaVitri Station and call service.
Low battery level. Please connect the charger.	Finish the current protocol as usual (if it is running) and charge the DaVitri at least for 15 minutes before starting a new protocol.
Battery: Oversupply detected. Please disconnect the charger.	If protocol is running, finish it as soon as possible. Then, switch off the DaVitri station, wait 15 minutes, and restart the unit. If the error persists, stop using DaVitri Station and call service.
Battery level is critical. Connect the charger if possible.	Activate the AC power supply in order to charge the battery as soon as possible, and finish the current protocol as usual (if it is running).

The reagents were loaded more than 15 minutes ago. Samples should already have been removed from the DaVitri Dish.	Does it occur BEFORE the samples are loaded? If YES, discard the Dish, and restart the protocol with a new dish and a new media.
	Does it occur AFTER the samples are loaded? If YES, recover the samples and continue with the protocol manually.
Communication	
Warning 01	When this error appears, the well can be illuminated by a blinking yellow led. This signal indicates that the display could be not responding.
Communication	
Warning 02	
Communication	Does it occur BEFORE the samples are loaded? If YES, discard the dish, and repeat the process again.
Warning 03	
Communication	If the error persists, stop using DaVitri Station and call service.
Warning 04	
	Does it occur AFTER the samples are loaded? If YES, recover the samples and continue with the protocol manually. Then, restart the DaVitri Station. If error persists, stop using DaVitri Station and call service.

INFO MESSAGES	RECOMMENDATION
Power button pressed. Shutting down.	Follow the recommendation.
Can't shutdown during operation.	
The device did not shut down properly last time.	
Restart the unit and if the error persists, stop using DaVitri Station and call service to replace the clock battery.	
Over 3 months since the last Internet connection. Please connect to check for updates.	

12. Labels and Symbols

Station Product Information Labels

SYMBOL	TITLE AND SUAGE	SYMBOL	TITLE AND SUAGE
	READ OPERATORS MANUAL CAUTION		ON / OFF POWER BUTTON
	DO NOT REUSE		CLASS II EQUIPMENT
	DATE OF MANUFACTURE		TYPE B APPLIED
	MANUFACTURER		DIRECT CURRENT
	WASTE CONTAINER		BATTERY LEVEL
	REFERENCE NUMBER		CHARGE
	SERIAL NUMBER		DO NOT USE IF THIS PACKAGE IS DAMAGED
	USE-BY-DATE		CAUTION

13. Privacy Policy and Terms of Services

Customer's Role in the Product Security Partnership

Overture Life recognizes that the security of Overture Life products is an important part of your facility's security strategy. However, these benefits can only be realized if you implement a comprehensive, multi-layered strategy (including policies, processes, and technologies) to protect information and systems from external and internal threats.

The customer is responsible for setting up and maintaining a secure and stable IT environment according to general IT standards.

Following industry-standard practice, your strategy should address:

- Physical security (e.g., do not allow unauthorized people to use the Overture Life DaVitri System);
- Risk management;
- Security policies (e.g., make sure that the DaVitri Documentation and equipment are securely stored);
- Contingency planning.

Overture Life is not responsible for the installation, maintenance or update of the DaVitri System or any related software or for the integrity of the Overture Life control software infected with a computer virus.



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