

C O R E H I S T O L O G Y

HISTOCORE PELORIS 3

PREMIUM TISSUE PROCESSING SYSTEM

QUICK TIPS



CE

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Contact Details

For sales, service and support, please contact your local Leica Biosystems representative. Contact details for all regions can be found on our website:

Leicabiosystems.com

For more detailed information please refer to the HistoCore PELORIS 3 User Manual located under the Leica Biosystems symbol on the function bar.

Intended use

The HistoCore PELORIS 3 dual retort rapid tissue processor automates preparation of tissue samples for sectioning. This is achieved by transforming fixed specimens into wax infiltrated specimens by exposing them to a sequence of reagents in the tissue processor. Tissue samples subsequently undergo interpretation by a qualified healthcare professional to aid diagnosis.



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Revision record			
Rev.	Issued	Sections affected	Detail
A05	October 2021	Table of Contents/Regulatory page	Updated to support IVDR
A06	December 2021	Front Cover Running Protocols, Shut Down Procedures, Reports, Security and Malware	Rebranding Updated for version 3.3
A07	April 2024	Running Protocols, Managing Reagents, Shut Down Procedures, Security and Malware	Updated for version 3.4

Xylene Mode – Recommended Setup

We recommend the setup shown in the images below. Setup must be validated by the laboratory prior to use, according to local or regional accreditation requirements.

Concentration Defaults and Change Thresholds

REAGENT TYPES										
Type	DM	Defaults					Reagent change thresholds			
		Conc.	Conc.	Cassettes	Cycles	Days	Conc.	Cassettes	Cycles	Days
Formalin	No	100.0%	98.0%	1500	N/A	N/A	N/A	N/A	N/A	N/A
Ethanol	Yes	100.0%	51.0%	N/A	N/A	N/A	98.0%	1500	N/A	N/A
Xylene	Yes	100.0%	68.0%	N/A	N/A	N/A	95.0%	1500	N/A	N/A
Wax	N/A	100.0%	85.0%	4500	N/A	N/A	95.0%	1500	N/A	N/A
Cleaning Xylene	No	100.0%	88.0%	N/A	10	N/A	N/A	N/A	N/A	N/A
Cleaning Ethanol	No	100.0%	88.0%	N/A	10	N/A	N/A	N/A	N/A	N/A

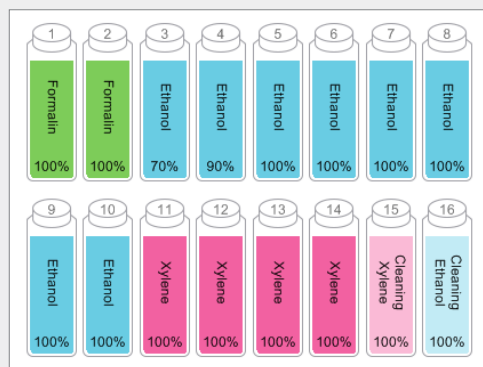
Admin > Reagent Types > Purity Thresholds

Temperature Thresholds

REAGENT TYPES						
Type	DM	Defaults		Max. temperatures		
		Conc.	Ambient	Vacuum	Safe	
Formalin	No	100.0%	60 °C	60 °C	45 °C	
Ethanol	Yes	100.0%	78 °C	51 °C	45 °C	
Xylene	Yes	100.0%	138 °C	99 °C	45 °C	
Wax	N/A	100.0%	100 °C	100 °C	77 °C	
Cleaning Xylene	No	100.0%	138 °C	99 °C	45 °C	
Cleaning Ethanol	No	100.0%	78 °C	51 °C	45 °C	

Admin > Reagent Types > Temperature Thresholds

Recommended Bottle Setup



Configure the bottles as shown.

Note: Put 70% and 90% Ethanol in bottles 3 and 4 for **initial setup** or if replacing all Ethanol reagent bottles.

When replacing Ethanol as part of ongoing operation, always replace with 100% Ethanol.

Reagent Management Method

REAGENT MANAGEMENT		
General Conc. Management: By calculation Prompt for number of cassettes: Enabled Default number of cassettes: 150 Default cassette: 26 Show conc.: Enabled	Retorts Last reagent in retort A: Cleaning Ethanol Last reagent in retort B: Cleaning Ethanol Fill state of retort A: Clean Fill state of retort B: Clean Empty access temp: < 77 °C	Global settings Wax standby temp: 65 °C Wax melting point: 56 °C Lot number: Optional
Reagent threshold check Enabled By cassettes Enabled By cycles Enabled By days Enabled By conc.	Wax bath settings Wax cleaning: Enabled	

Confirm reagent management is correctly configured, on the **Reagent management screen**.

General:

- » Conc. Management – By calculation
- » Prompt for number of cassettes – Enabled
- » Show conc. – Enabled

Reagent threshold check

All four check methods – by cassettes, cycles, days and concentration – Enabled.

Contact your local technical support to change any of the settings.

Recommended Xylene Protocols

1 hour

Reagent	Step Time (min)	Temp (°C)	P/V	Stirrer	Drip Time (s)
Formalin	1	Ambient	Ambient	Med	10
Ethanol	1	Ambient	Ambient	Med	10
Ethanol	1	Ambient	Ambient	Med	10
Ethanol	1	Ambient	Ambient	Med	10
Ethanol	1	Ambient	Ambient	Med	10
Ethanol	1	Ambient	Ambient	Med	10
Ethanol	18	45	Ambient	Med	10
Xylene	1	Ambient	Ambient	Med	10
Xylene	1	Ambient	Ambient	Med	10
Xylene	14	45	Ambient	Med	10
Wax	2	65	Vacuum	Med	10
Wax	1	65	Vacuum	Med	10
Wax	14	65	Vacuum	Med	10

4 hour

Reagent	Step Time (min)	Temp (°C)	P/V	Stirrer	Drip Time (s)
Formalin	10	45	Ambient	Med	10
Ethanol	1	Ambient	Ambient	Med	10
Ethanol	1	Ambient	Ambient	Med	10
Ethanol	1	Ambient	Ambient	Med	10
Ethanol	20	45	Ambient	Med	10
Ethanol	20	45	Ambient	Med	10
Ethanol	45	45	Ambient	Med	10
Xylene	1	Ambient	Ambient	Med	10
Xylene	10	45	Ambient	Med	10
Xylene	45	45	Ambient	Med	10
Wax	10	65	Vacuum	Med	10
Wax	10	65	Vacuum	Med	10
Wax	40	65	Vacuum	Med	10

8 hour

Reagent	Step Time (min)	Temp (°C)	P/V	Stirrer	Drip Time (s)
Formalin	20	45	Ambient	Med	10
Ethanol	20	45	Ambient	Med	10
Ethanol	20	45	Ambient	Med	10
Ethanol	20	45	Ambient	Med	10
Ethanol	20	45	Ambient	Med	10
Ethanol	40	45	Ambient	Med	10
Ethanol	60	45	Ambient	Med	10
Xylene	30	45	Ambient	Med	10
Xylene	30	45	Ambient	Med	10
Xylene	60	45	Ambient	Med	10
Wax	40	65	Vacuum	Med	10
Wax	40	65	Vacuum	Med	10
Wax	60	65	Vacuum	Med	10

2 hour

Reagent	Step Time (min)	Temp (°C)	P/V	Stirrer	Drip Time (s)
Formalin	1	Ambient	Ambient	Med	10
Ethanol	1	Ambient	Ambient	Med	10
Ethanol	1	Ambient	Ambient	Med	10
Ethanol	1	Ambient	Ambient	Med	10
Ethanol	1	Ambient	Ambient	Med	10
Ethanol	11	45	Ambient	Med	10
Ethanol	30	45	Ambient	Med	10
Xylene	1	Ambient	Ambient	Med	10
Xylene	1	Ambient	Ambient	Med	10
Xylene	28	45	Ambient	Med	10
Wax	5	65	Vacuum	Med	10
Wax	5	65	Vacuum	Med	10
Wax	20	65	Vacuum	Med	10

6 hour

Reagent	Step Time (min)	Temp (°C)	P/V	Stirrer	Drip Time (s)
Formalin	15	45	Ambient	Med	10
Ethanol	15	45	Ambient	Med	10
Ethanol	15	45	Ambient	Med	10
Ethanol	15	45	Ambient	Med	10
Ethanol	15	45	Ambient	Med	10
Ethanol	30	45	Ambient	Med	10
Ethanol	45	45	Ambient	Med	10
Xylene	20	45	Ambient	Med	10
Xylene	20	45	Ambient	Med	10
Xylene	45	45	Ambient	Med	10
Wax	30	65	Vacuum	Med	10
Wax	30	65	Vacuum	Med	10
Wax	45	65	Vacuum	Med	10

12 hour

Reagent	Step Time (min)	Temp (°C)	P/V	Stirrer	Drip Time (s)
Formalin	44	45	Ambient	Med	10
Ethanol	30	45	Ambient	Med	10
Ethanol	30	45	Ambient	Med	10
Ethanol	30	45	Ambient	Med	10
Ethanol	30	45	Ambient	Med	10
Ethanol	60	45	Ambient	Med	10
Ethanol	90	45	Ambient	Med	10
Xylene	45	45	Ambient	Med	10
Xylene	45	45	Ambient	Med	10
Xylene	90	45	Ambient	Med	10
Wax	60	65	Vacuum	Med	10
Wax	60	65	Vacuum	Med	10
Wax	80	65	Vacuum	Med	10

Xylene-Free Mode – Recommended Setup

We recommend the setup shown in the images below. Setup must be validated by the laboratory prior to use, according to local or regional accreditation requirements.

Concentration Defaults and Change Thresholds

REAGENT TYPES										
Type	DM	Defaults		Reagent change thresholds			Final reagent thresholds			
		Conc.	Conc.	Cassettes	Cycles	Days	Conc.	Cassettes	Cycles	Days
Formalin	No	100.0%	98.0%	1500	N/A	N/A	N/A	N/A	N/A	N/A
85% Ethanol	Yes	85.0%	50.0%	N/A	N/A	N/A	N/A	N/A	N/A	N/A
80/20 Ethanol / IPA	Yes	100.0%	81.0%	N/A	N/A	N/A	N/A	N/A	N/A	N/A
IPA	Yes	100.0%	90.0%	4500	N/A	N/A	95.0%	1500	N/A	N/A
Wax	N/A	100.0%	85.0%	4500	N/A	N/A	95.0%	1500	N/A	N/A
Waxsol	No	100.0%	N/A	N/A	6	N/A	N/A	N/A	N/A	N/A
Cleaning Ethanol	No	100.0%	88.0%	N/A	10	N/A	N/A	N/A	N/A	N/A

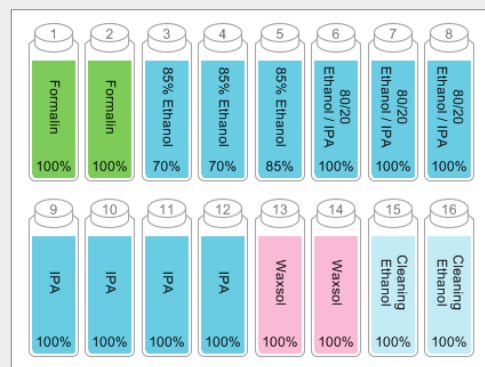
Admin > Reagent Types > Purity Thresholds

Temperature Thresholds

REAGENT TYPES						
Type	DM	Defaults		Max. temperatures		
		Conc.	Ambient	Vacuum	Safe	
Formalin	No	100.0%	60 °C	60 °C	45 °C	
85% Ethanol	Yes	85.0%	87 °C	55 °C	45 °C	
80/20 Ethanol / IPA	Yes	100.0%	78 °C	51 °C	45 °C	
IPA	Yes	100.0%	82 °C	55 °C	45 °C	
Wax	N/A	100.0%	100 °C	100 °C	77 °C	
Waxsol	No	100.0%	100 °C	100 °C	45 °C	
Cleaning Ethanol	No	100.0%	78 °C	51 °C	45 °C	

Admin > Reagent Types > Temperature Thresholds

Recommended Bottle Setup



Configure the bottles as shown.

Note: Put 70% Ethanol in bottles 3 and 4 for **initial setup** or if replacing all 85% Ethanol reagent bottles.

When replacing the 85% Ethanol as part of ongoing operation, always replace with 85% Ethanol.

Reagent Management Method

REAGENT MANAGEMENT			
General	Conc. Management	By calculation	Enabled
	Prompt for number of cassettes		Enabled
	Default number of cassettes	150	
	Default cassette	26	
	Show conc.	Enabled	
Reagent threshold check	Enabled	By cassettes	Enabled
	Enabled	By cycles	Enabled
	Enabled	By days	Enabled
	Enabled	By conc.	Enabled
Retorts	Last reagent in retort A	Cleaning Ethanol	
	Last reagent in retort B	Cleaning Ethanol	
	Fill state of retort A	Clean	
	Fill state of retort B	Clean	
	Empty access temp	< 77 °C	
Wash bath settings	Wash cleaning	Enabled	
Global settings	Wash standby temp	65 °C	
	Wash melting point	56 °C	
	Lot number	Optional	

Confirm reagent management is correctly configured, on the **Reagent management screen**.

General:

- » Conc. Management – By calculation
- » Prompt for number of cassettes – Enabled
- » Show conc. – Enabled

Reagent threshold check

All four check methods – by cassettes, cycles, days and concentration – Enabled.

Contact your local technical support to change any of the settings.

Recommended Xylene-Free Protocols

1 hour

Reagent	Step Time (min)	Temp (°C)	P/V	Stirrer	Drip Time (s)
Formalin	1	Ambient	Ambient	Med	10
85% Ethanol	1	Ambient	Ambient	Med	10
85% Ethanol	6	55	Ambient	Med	10
80/20	1	Ambient	Ambient	Med	10
80/20	6	55	Ambient	Med	10
IPA	1	Ambient	Ambient	Med	10
IPA	1	Ambient	Ambient	Med	10
IPA	12	55	Ambient	Med	10
Wax	20	85	Vacuum	Med	10
Wax	5	85	Vacuum	Med	10
Wax	1	65	Vacuum	Med	10

4 hour

Reagent	Step Time (min)	Temp (°C)	P/V	Stirrer	Drip Time (s)
Formalin	10	55	Ambient	Med	10
85% Ethanol	3	Ambient	Ambient	Med	10
85% Ethanol	22	55	Ambient	Med	10
80/20	10	Ambient	Ambient	Med	10
80/20	40	55	Ambient	Med	10
IPA	3	Ambient	Ambient	Med	10
IPA	10	55	Ambient	Med	10
IPA	45	55	Ambient	Med	10
Wax	45	85	Vacuum	Med	10
Wax	20	85	Vacuum	Med	10
Wax	10	65	Vacuum	Med	10

8 hour

Reagent	Step Time (min)	Temp (°C)	P/V	Stirrer	Drip Time (s)
Formalin	30	55	Ambient	Med	10
85% Ethanol	20	55	Ambient	Med	10
85% Ethanol	30	55	Ambient	Med	10
80/20	30	55	Ambient	Med	10
80/20	60	55	Ambient	Med	10
IPA	20	55	Ambient	Med	10
IPA	40	55	Ambient	Med	10
IPA	80	55	Ambient	Med	10
Wax	60	85	Vacuum	Med	10
Wax	50	85	Vacuum	Med	10
Wax	40	65	Vacuum	Med	10

2 hour

Reagent	Step Time (min)	Temp (°C)	P/V	Stirrer	Drip Time (s)
Formalin	1	Ambient	Ambient	Med	10
85% Ethanol	1	Ambient	Ambient	Med	10
85% Ethanol	12	55	Ambient	Med	10
80/20	1	Ambient	Ambient	Med	10
80/20	25	55	Ambient	Med	10
IPA	1	Ambient	Ambient	Med	10
IPA	1	Ambient	Ambient	Med	10
IPA	25	55	Ambient	Med	10
Wax	25	85	Vacuum	Med	10
Wax	10	85	Vacuum	Med	10
Wax	5	65	Vacuum	Med	10

6 hour

Reagent	Step Time (min)	Temp (°C)	P/V	Stirrer	Drip Time (s)
Formalin	20	55	Ambient	Med	10
85% Ethanol	15	55	Ambient	Med	10
85% Ethanol	20	55	Ambient	Med	10
80/20	20	55	Ambient	Med	10
80/20	45	55	Ambient	Med	10
IPA	15	55	Ambient	Med	10
IPA	30	55	Ambient	Med	10
IPA	60	55	Ambient	Med	10
Wax	45	85	Vacuum	Med	10
Wax	40	85	Vacuum	Med	10
Wax	30	65	Vacuum	Med	10

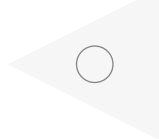
12 hour

Reagent	Step Time (min)	Temp (°C)	P/V	Stirrer	Drip Time (s)
Formalin	68	55	Ambient	Med	10
85% Ethanol	30	55	Ambient	Med	10
85% Ethanol	40	55	Ambient	Med	10
80/20	50	55	Ambient	Med	10
80/20	90	55	Ambient	Med	10
IPA	30	55	Ambient	Med	10
IPA	60	55	Ambient	Med	10
IPA	120	55	Ambient	Med	10
Wax	80	85	Vacuum	Med	10
Wax	70	85	Vacuum	Med	10
Wax	60	65	Vacuum	Med	10

Tissue Size Recommendations – Xylene and Xylene-Free

Protocol	Example	Maximum Thickness	Specimen Type (Example)
1hr		1.5 mm diameter	Endoscopies and needle biopsies of breast and prostate.
2hr		<3 mm diameter	All biopsies up to 3 mm diameter: GI biopsies, renal, prostatic, hepatic and breast cores, punch biopsies of skin, small colonic polyps.
4hr		3 mm diameter	Small specimens of non-dense tissues (kidney, liver, bowel etc), excisional and incisional skin biopsies, skin ellipses.
6 – 8hr		15 x 10 x 4 mm	All routine tissues up to maximum dimensions (excluding brain specimens).
12hr		20 x 10 x 5 mm	All routine tissues up to maximum dimensions. Very thick fatty specimens may require a longer protocol.

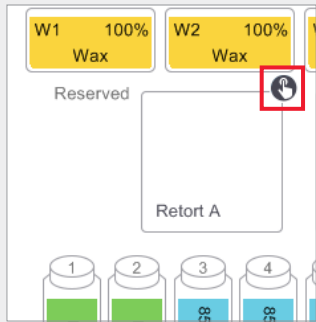
*Images not to scale.



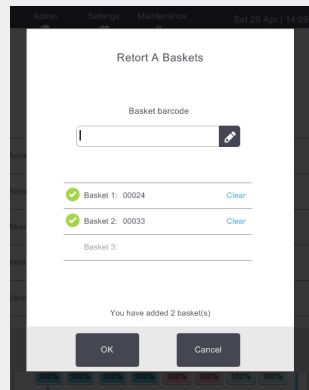
Scanning Baskets

Each basket has a 2-D barcode on one of its anti-reflection tags. Scanning the barcode (or entering it by hand), and capturing the basket image (available with the HistoCore I-Scan only) is an optional step that can be completed at any time before starting a protocol run but doing so will help you track tissue specimens as they progress through the laboratory.

Using the Barcode Scanner



Tap on the retort scanning icon for the retort that is to be used for the protocol run. This opens the retort baskets dialog box.



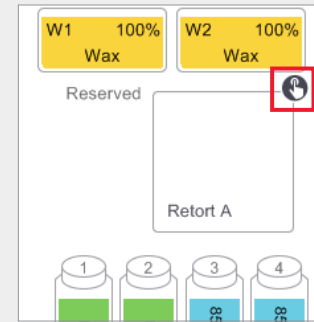
Using the attached hand-held scanner, scan the barcode located on the basket tab.

Alternatively, the barcode can be manually entered by tapping on the pen icon.

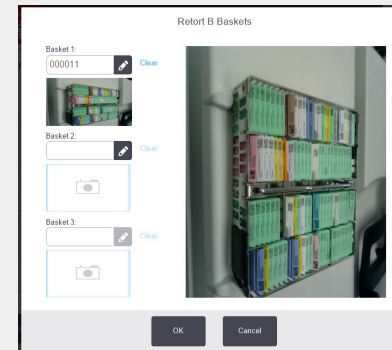
When entered, the barcode is displayed with a green tick and the cursor is ready for the next barcode in the text box.

When all baskets are scanned, tap **OK**.

Using the HistoCore I-Scan



Tap on the retort scanning icon for the retort that is to be used for the protocol run. This opens the retort baskets dialog box.



Using the attached HistoCore I-Scan, scan the barcode located on the basket tab.

The scanner then switches to camera mode. Capture an image of the basket.

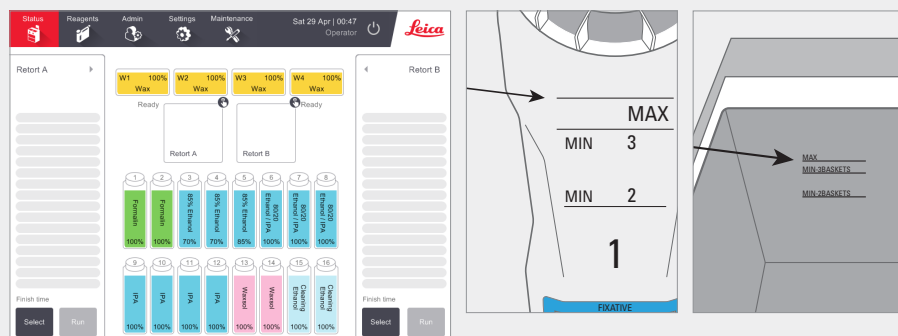
When captured, the barcode and the image are displayed and the Histo-Core I-Scan is ready to scan the next basket barcode.

When all basket barcodes and images are captured, tap **OK**.

Note: Once a run is complete, basket images are available on the Run Details report.

Running a Protocol

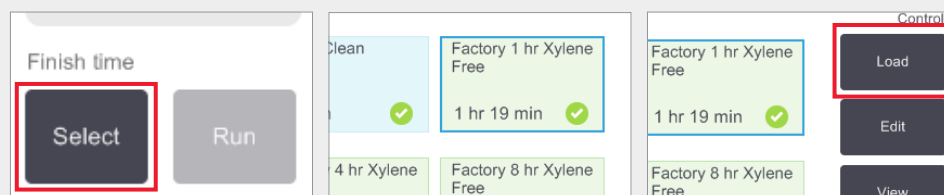
1. Conduct Pre-Run Checks



Check system status:

- » Ensure retort is clean.
- » Ensure no expired reagents.
- » Check reagent and wax levels are between "MAX" and "MIN 3" (3 baskets) or "MIN 2" (2 baskets).

2. Load the Protocol



Tap **Select** on the Status screen.

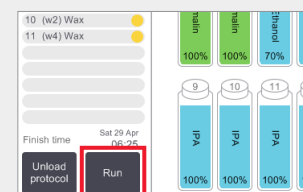
Tap the required validated protocol.

Tap **Load**.

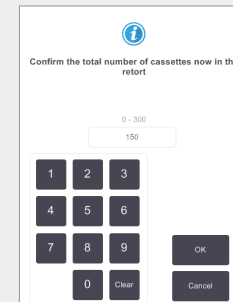
3. Start the Run



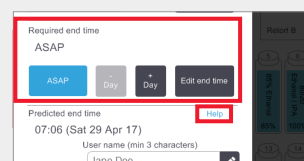
Place the baskets (1, 2 or 3) into the retort.



Tap **Run**.



Enter the number of cassettes.



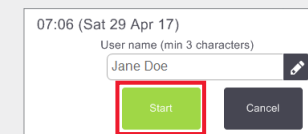
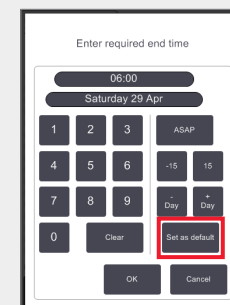
Set the end time:

ASAP – for immediate start.

Set end time – for delayed start.

If required, accept the default time set for that protocol.

The **Help** link provides information on scheduling runs.



Scan or enter user name to enable Start button.

Tap **Start**.

Running a Protocol

4. Monitor the Progress

Factory 1 hr Xylene Free

Add note

	Reagent	min	°C	P/V	Stirrer	
1	(2) Formalin	1	Amb.	Amb.	Med	✓
2	(3) 85% Ethanol	1	Amb.	Amb.	Med	✓
3	(5) 85% Ethanol	6	55 °C	Amb.	Med	✓
4	(6) 80/20 Ethanol / IPA	1	Amb.	Amb.	Med	✓
5	(8) 80/20 Ethanol / IPA	6	55 °C	Amb.	Med	✓
6	(9) IPA	1	Amb.	Amb.	Med	✓
7	(10) IPA	1	Amb.	Amb.	Med	✓
8	(12) IPA	12	55 °C	V	Med	✓
9	(w1) Wax	20	85 °C	V	Med	✓
10	(w2) Wax	5	85 °C	V	Med	✓
11	(w4) Wax	1	65 °C	V	Med	✓

Processing time 01:19:00

Unload **Pause** Saturday 29 Apr

From the **Status screen**, view the progress of each step (expanded view shown).

Protocol notes for a single run can be added prior to starting, or at any time during the protocol, by tapping **Add note**. This will display a keyboard.

Factory 1 hr Xylene Free

Add note

	Reagent	min	°C	P/V	Stirrer	
1	(1) Formalin	✓				
2	(3) 85% Ethanol	✓				
3	(5) 85% Ethanol	✓				
4	(6) 80/20 Ethanol / IPA	✓				
5	(7) 80/20 Ethanol / IPA	✓				
6	(9) IPA	✓				
7	(10) IPA	✓				
8	(11) IPA	✓				
9	(w1) Wax	✓				
10	(w2) Wax	✓				
11	(w3) Wax	✓				

Finish time Sat 29 Apr 13:55

Unload protocol **Pause**

The number of scanned baskets is displayed on the retort icon and, if you tap the icon, the basket ID (s) are displayed.

Tap the **X** to hide the basket ID box.

5. Complete the Run

Factory 1 hr Xylene Free

Protocol complete
Sat 29 Apr | 09:08

Drain Retort

Access Now

Protocol complete.

Drain the retort.

Drain complete
Access retort now

Open Retort

Ensure that all tissue is removed

Done

Drain complete, open the retort. When all tissue has been removed, tap **Done**.

Quick Clean

Clean now

Finish time Sat 29 Apr 11:23

Select protocol **Start**

Tap **Start** to begin cleaning protocol.

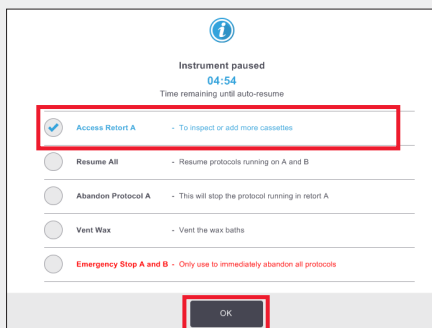
Enter your user name when prompted.

Adding Baskets and Cassettes to a Running Protocol

1. Pause the Protocol



On the **Status** screen, tap **Pause** for the retort to which you want to add the new basket or cassettes.

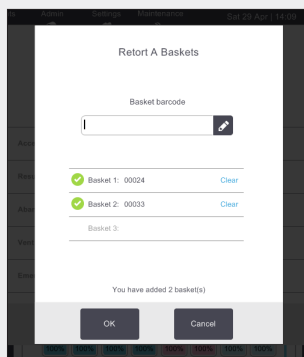


On the **Instrument paused** dialog box, tap **Access Retort**. A blue tick is displayed next to the tapped option. Tap **OK**.



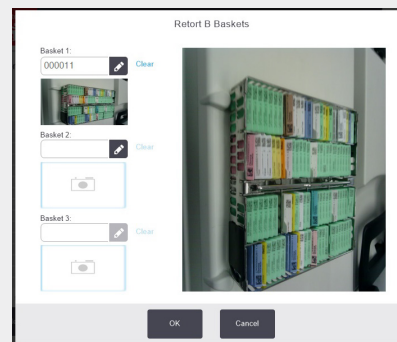
Wait for the above dialog box to appear. If you would like to drain the retort before accessing, tap **Yes**.

2. Add New Baskets/Cassettes and Restart the Protocol



If using a barcode scanner, scan the basket to be added and tap **OK**.

OR To add cassettes to an existing basket, tap **Cancel**.



If using the HistoCore I-Scan, scan and capture an image of the basket to be added and tap **OK**.

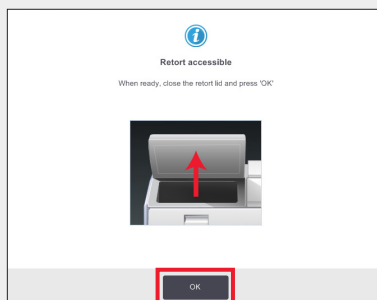
OR To add cassettes to an existing basket, tap **Cancel**.



Add the scanned basket

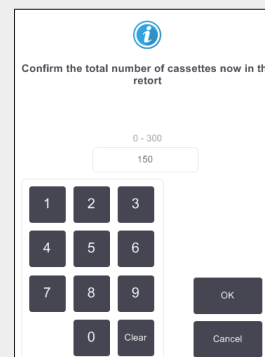
OR Remove the cassette basket from the retort and add the new cassettes.

3. Restart the Protocol



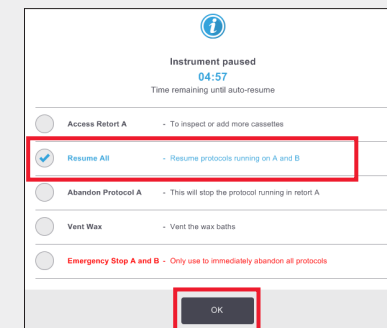
Place the basket into the retort.

Close the retort lid and tap **OK** on the **Retort accessible** dialog box.



Enter the total number of cassettes in the retort and tap **OK**.

Enter your user name when prompted.

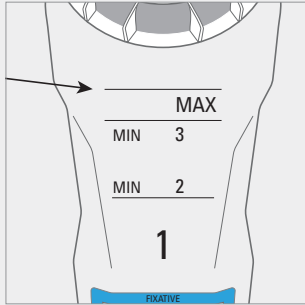


Wait for the **Instrument Paused** dialog to appear and tap **Resume All**.

Tap **OK** to refill and resume protocol. Enter your user name when prompted.

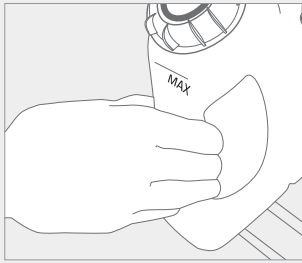
PELORIS 3 Reagent Top off/Top up

1. Check the Bottle Contents and Remove if Necessary

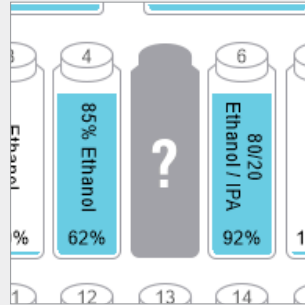


Top off/up the bottle when the reagent is below the minimum level.

This is MIN 2 for a two-basket setup or MIN 3 for a three-basket setup.

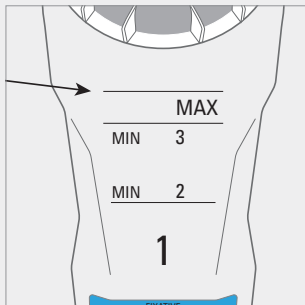


Important! Ensure no protocol is running then remove the bottle from the instrument.

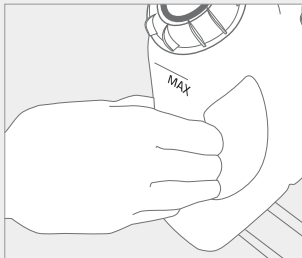


The software will indicate that the bottle is missing.

2. Fill the Bottle with the SAME Contents as on the Bottle Label

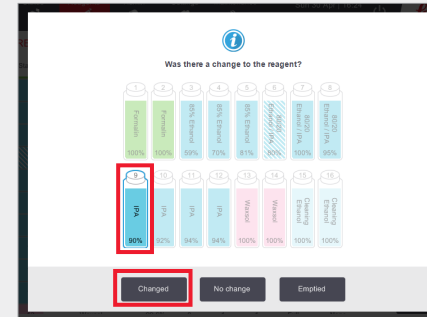


Fill the bottle to the maximum level and tighten the cap by hand.



Return the bottle to the cabinet – push firmly into the rear connectors.

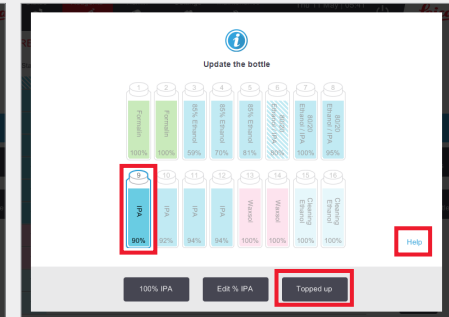
3. Update the Bottle Details



Select the bottle to update.

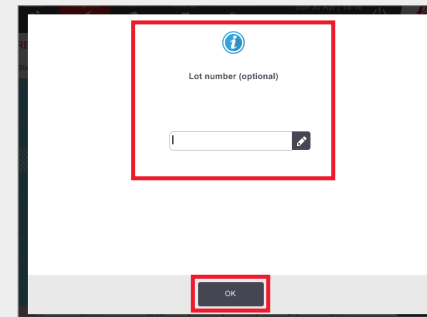
This enables the action options.

Tap **Changed**.



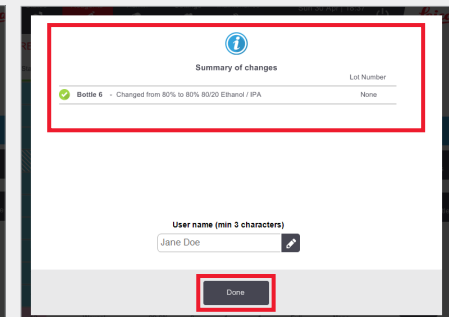
Tap **Topped Up**.

The **Help** link provides information on bottle changes.



Enter lot number if required.

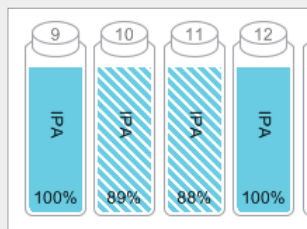
Tap **OK** to continue.



The summary of changes dialog is displayed. Enter your user name and tap **Done** to complete.

PELORIS 3 Reagent Replacement – Manual

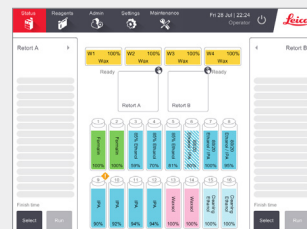
1. When to Replace Reagent



Replace reagent when bottles appear hatched on the **Status** screen.

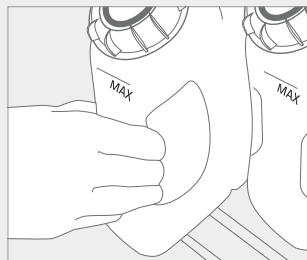


OR When warned at protocol start (final threshold exceeded).

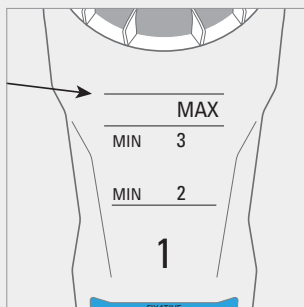


Ensure no protocols are loaded or running.

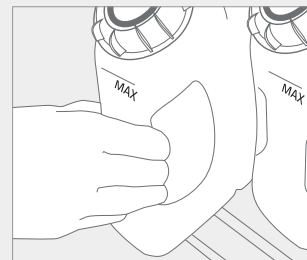
2. Empty and Replace the Reagent



Remove the bottle and safely dispose of the used reagent.

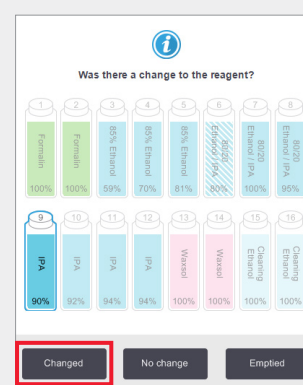


Fill the bottle to the maximum level and tighten the cap by hand.

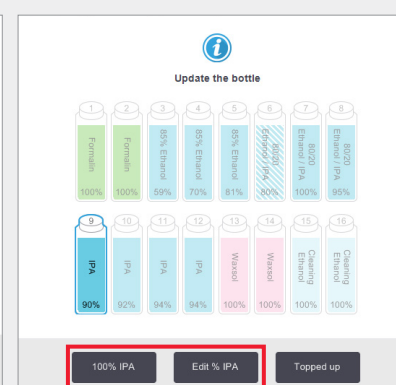


Return the bottle to the cabinet – push firmly into the rear connectors.

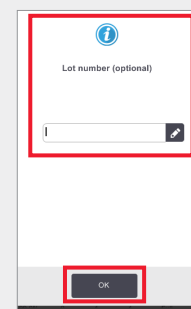
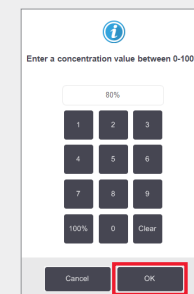
3. Update the Bottle Details



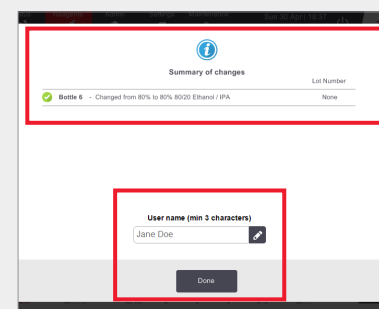
Select the bottle you replaced by tapping it on the screen. Tap **Changed**.



For the example shown, use the **100% IPA** option unless you need to change the concentration, in which case use **Edit % IPA** using the keypad. Tap **OK** when you are done.



Enter lot number if required. Tap **OK** to continue.



The summary of changes dialog is displayed. Enter your user name and tap **Done** to complete.

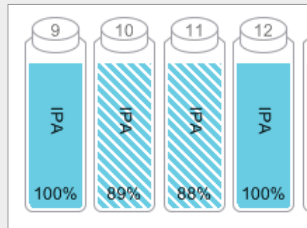
Note: You can find information on bottle changes in the help link on the "Update the bottle" dialog box.



If you receive warnings that an out-of-threshold reagent has been selected for a protocol, do not proceed with the protocol run. Out-of-threshold reagents will result in poor-quality processing.

PELORIS 3 Reagent Replacement – Remote Fill and Drain

1. When to Replace

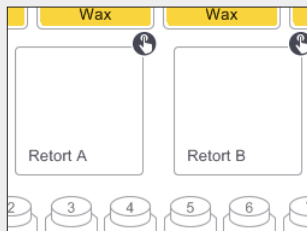


Replace reagent when bottles appear hatched on the **Status** screen.



OR When warned at protocol start (final threshold exceeded).

2. Drain Preparation



Ensure a clean retort is available.

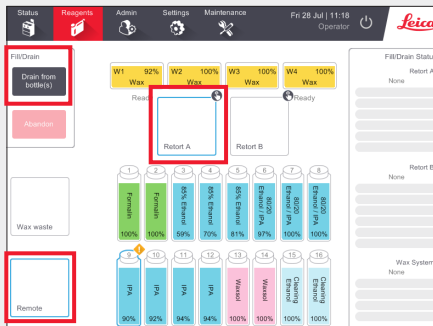


Connect the remote fill/drain hose.



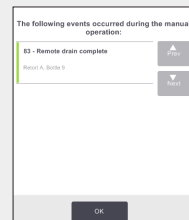
Insert the hose into a stable container with sufficient capacity to avoid overflow.

3. Drain



Go to Reagents > Remote Fill/Drain.

Tap **Remote**, a retort and the bottles to drain, then tap **Drain from bottle(s)**. Enter your user name to continue.



An Action Queue item is displayed when the drain is complete.

Tap **OK**.

4. Fill Preparation



Connect the remote fill/drain hose.

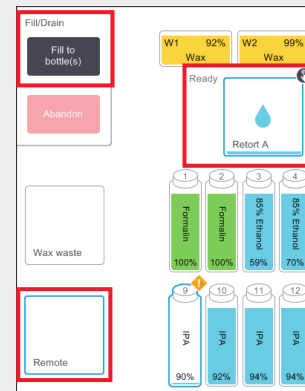


Insert into reagent container.



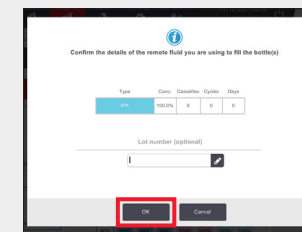
Ensure empty bottles are securely in position and the caps are not loose.

5. Fill



Go to Reagents> Remote Fill/Drain.

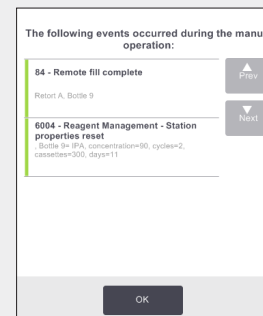
Tap **Remote**, a retort and the bottles to fill, and then tap **Fill to bottle(s)** and follow the instructions.



Confirm or change new reagent details when prompted.

Enter lot number if required.

Enter your user name when prompted.



An Action Queue item is displayed when the fill is complete.

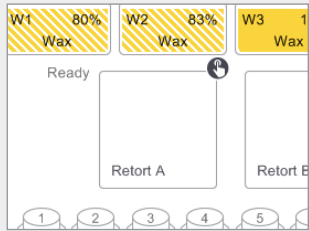
Tap **OK**.



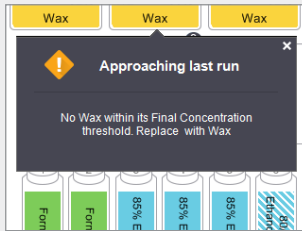
Clean the retort if the residue is incompatible with the next run.

PELORIS 3 – Wax Replacement

1. When to Replace

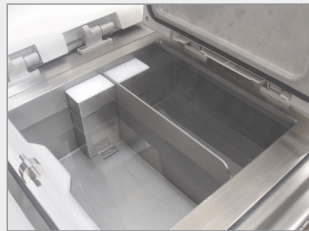


Replace wax when chambers appear hatched on the **Status** screen.



OR When warned at the start of the protocol.

2. Preparation



Ensure wax is molten then close the lid.

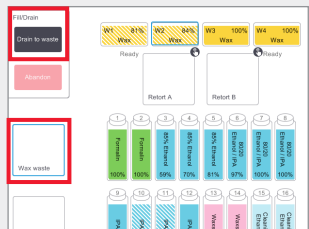


Connect wax waste line.

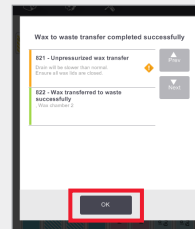


Insert hose into a stable container with sufficient capacity to avoid overflow.

3. Drain

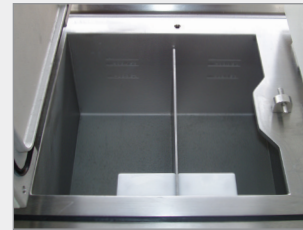


Go to Reagents > Remote Fill/Drain. Tap **Wax waste** and the wax chambers to drain, then tap **Drain To Waste**.



An action queue item is displayed when the drain to waste is complete. Tap **OK**.

4. Add New Wax*



Clean the wax bath using a lint-free cloth.



Either Use Paraplast (molten or pellets). Use the LLS tool wax plug to ensure wax does not go down the wax vent.



OR Add wax directly to the bath. Use Parablocks for easy handling and rapid melt.

5. Update Station State

Go to Reagents > Stations > Wax Chambers.

Tap the wax chamber state.

Station	Type	Conc.	Cassettes	Cycles	Days	Temp.	State	Lot Number
W1	Wax	98.8%	300	2	803	65.0 °C	Full	None
W2	Wax	100.0%	0	0	0	65.0 °C	Dry	None
W3	Wax	89.0%	600	4	803	65.0 °C	Full	None
W4	Wax	99.5%	300	2	60	65.0 °C	Full	None

Set the state of wax chamber 2

Full (highlighted)

In use

Empty

Not molten (requires melting) (highlighted)

Lot number (optional)

12345

Cancel OK

Set the chamber state to **Full** (molten wax) or **Not molten** (Parablocks or pellets).

Enter lot number if required.

Tap **OK**. Enter your user name when prompted.

Station	Type	Conc.	Cassettes	Cycles	Days	Temp.	State	Lot Number
w1	Wax	92.0%	300	2	1	65.0 °C	Full	None
w2	Wax	100.0%	0	0	0	65.0 °C	Full	12345
w3	Wax	99.8%	150	1	1	65.0 °C	Full	None

Wax concentration and cycle, cassette and day counts are automatically updated. The lot number is displayed here if entered.

***Warning:** The use of products containing DMSO may compromise processing quality on PELORIS 3.

PELORIS 3 Maintenance Tracking

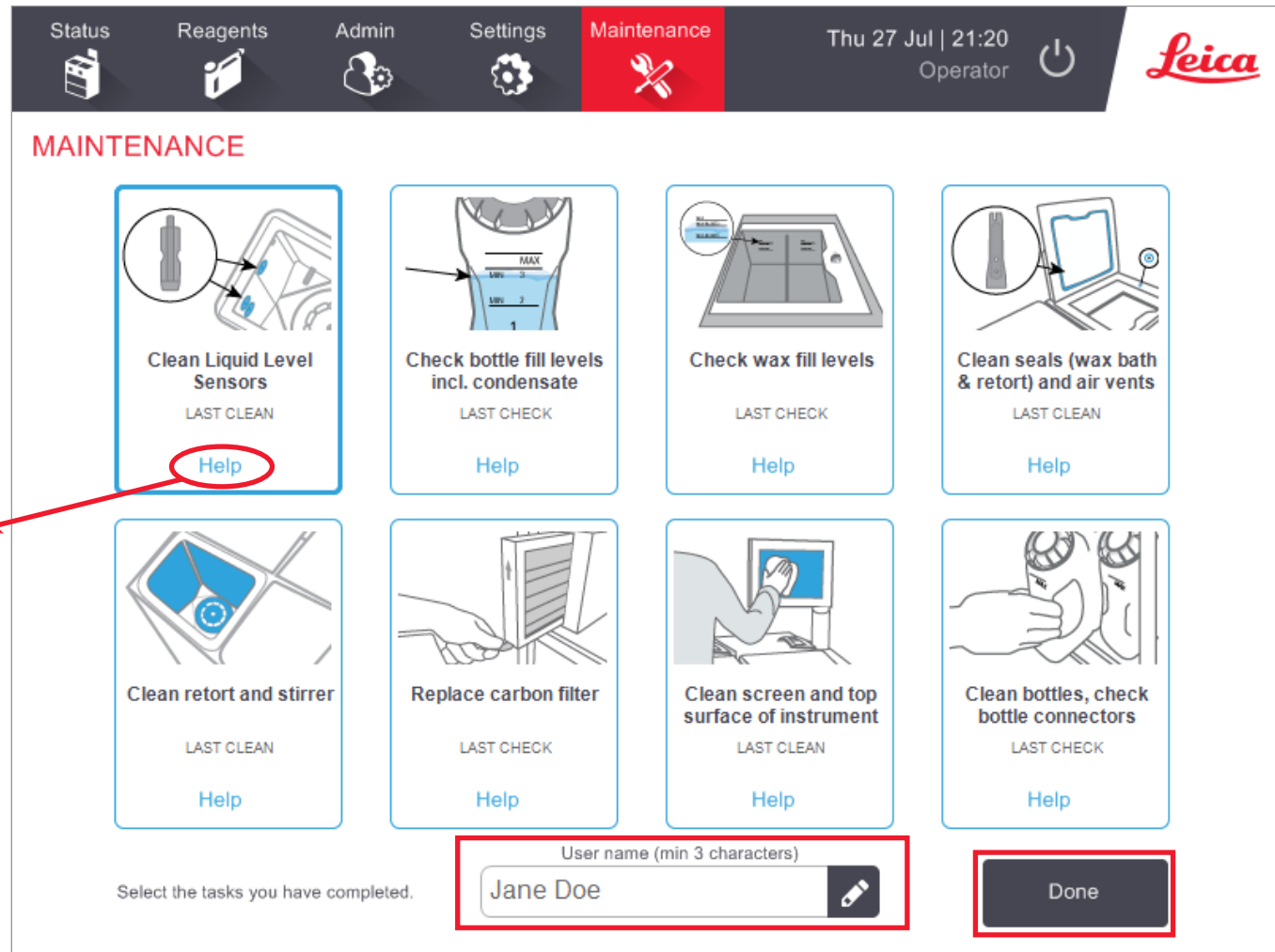
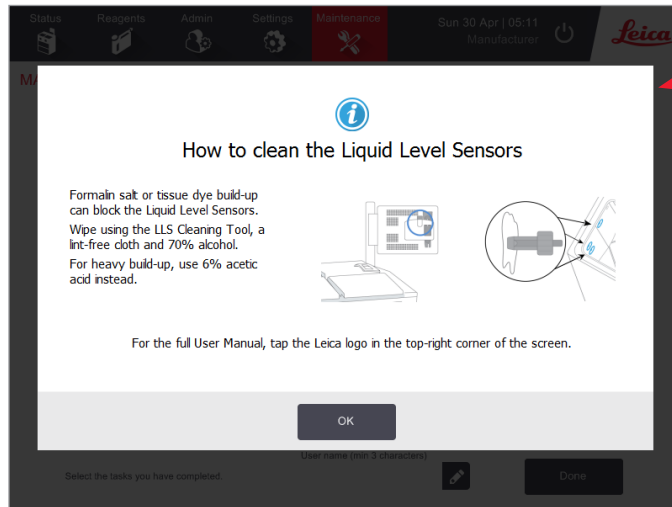
The **Maintenance** screen provides a way to record the activity and timing of routine maintenance functions.

Routine maintenance tasks are displayed in the Maintenance screen.

The Help link provides instruction on the task (LLS example below).

Tap to select the task(s) you have completed, enter or scan your user name and tap **Done**.

This will save the date and user name against the task(s).

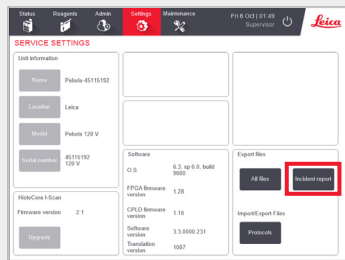


Refer to the User Manual for lists of recommended daily, weekly and monthly tasks.

PELORIS 3 Transferring Incident Reports or Log Files

1. Select Incident Reports or Log Files

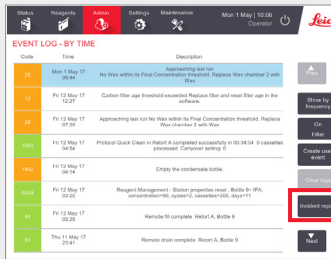
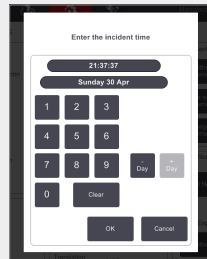
Choose the file type required:



Incident Reports: Go to Settings > Service > Export Files pane.

Tap **Incident Report**.

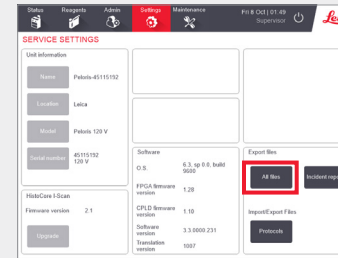
When prompted, enter the time and date of the incident. Tap **OK**.



OR Go to Admin > Event Log.

Tap a specific incident to select it.

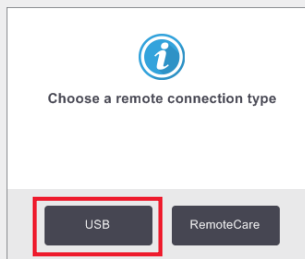
Tap **Incident Report**.



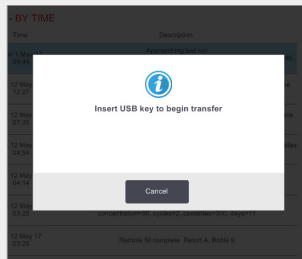
Full Logs: Go to Settings > Service > Export Files pane.

Tap **All Files**.

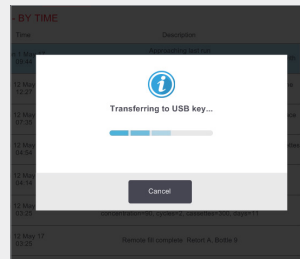
2. Transfer Files and Email to Leica Biosystems



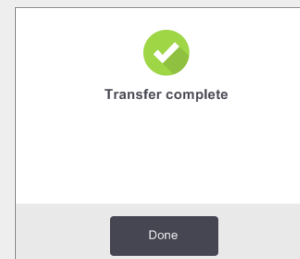
Choose a remote connection type, for example USB.



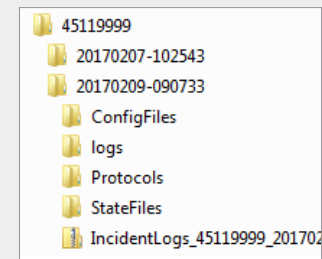
When prompted, insert your USB drive into the front port.



A dialog box is displayed showing the progress of the transfer.



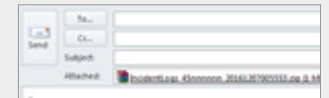
When the transfer is complete, remove the USB drive.



Insert the USB drive into your computer.

Locate the file at X:\{transfer date and time} (X is the location of the USB drive).

Email the incident report zip file to your local support center.



When to transfer log files:

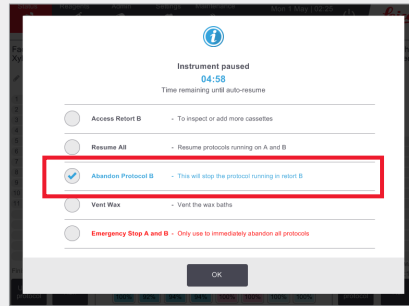
Only transfer log files if requested by a Leica Biosystems representative. Use the method advised.

PELORIS 3 Abandoning Protocols

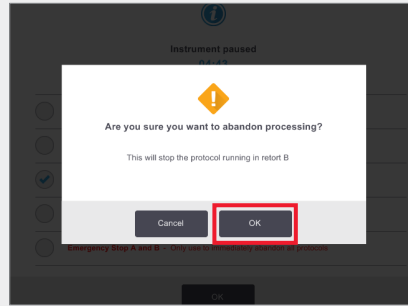
Abandoning a Single Protocol



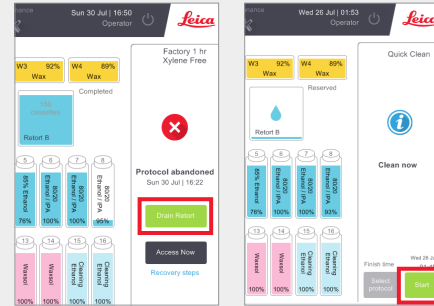
On the **Status** screen, tap **Pause** on the protocol you wish to abandon.



On the **Instrument paused** dialog box, tap the **Abandon Protocol** option. This now has a tick and is highlighted in blue. Tap **OK**.



To confirm, tap **OK**.
Enter your user name when prompted.



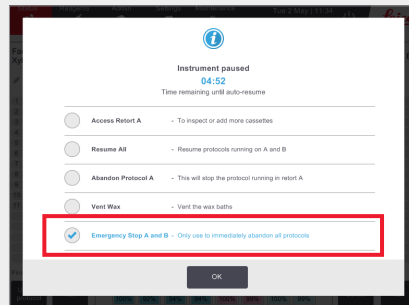
Follow the prompts to drain the retort and remove the cassettes.

When completed, close the retort and start the quick clean. Enter your user name when prompted.

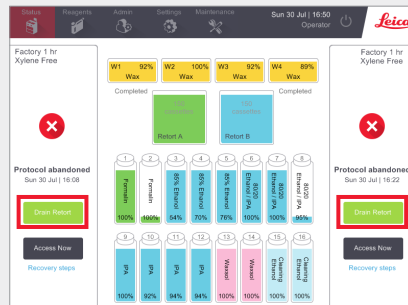
Abandoning Both Protocols using Emergency Stop from the Instrument Paused Dialog



On the **Status** screen, tap **Pause** on the protocol you wish to abandon.



On the **Instrument paused** dialog box, tap the **Emergency Stop** option. This now has a tick and is highlighted in blue. Tap **OK**.
Enter your user name when prompted.



Follow the prompts to drain the retorts and remove the cassettes.

When completed, close the retorts and start the quick clean. Enter your user name when prompted.

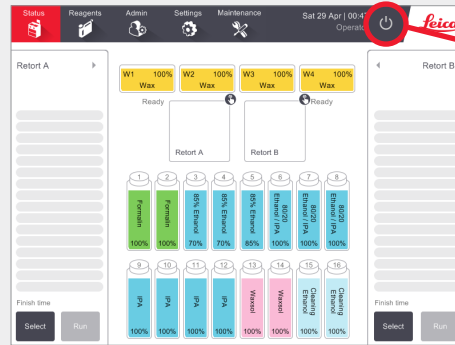
PELORIS 3 Shutdown

Normal Shutdown

When to shut down:

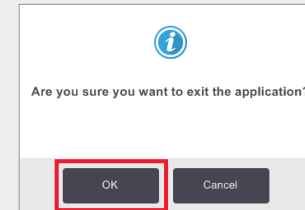
- » Instrument is being moved or shipped.
- » Before servicing.
- » To avoid a potentially hazardous incident.

At all other times keep the instrument on, even if idle for extended periods.



Ensure the instrument is idle, with no protocols or other operations in progress.

Tap the **shutdown button** on the function bar as shown above.



Tap **OK** to confirm.

The software will now safely shut down.



Wait for the screen to go blank, then tap the **power button** at the front of the instrument.

Emergency Shutdown

In an emergency, tap the power button at the front of the instrument.



If conditions permit, also switch the power off at the mains socket and pull out the power cord.

Only use the emergency stop procedure when there is an immediate danger or risk to safety.

This procedure can damage the instrument and tissue being processed.

Extended Shutdown Period

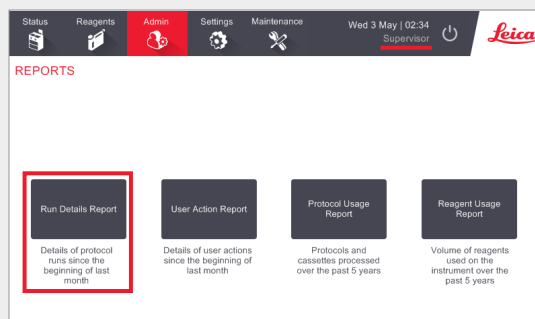
If the instrument is left unpowered for more than three days, the steps below must be followed to ensure the instrument continues to meet the product standards.

Dry Out Procedure

1. Ensure the mains power outlet socket is earthed.
 2. Plug the power cable into the socket and switch on the power.
 3. Move the circuit-breaker switch to the right to turn it on.
 4. Press the power button on the front of the instrument.
 5. Wait for 1 hour before any further interaction with the instrument.
- The instrument is now ready for use.

PELORIS 3 Reports

Run Details Report

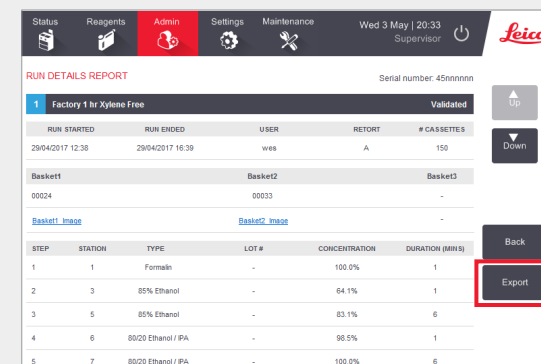


Navigate to Admin > Reports and tap **Run Details Report**.

User names are visible in Supervisor mode.



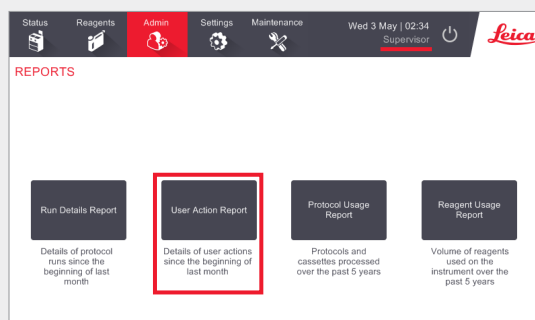
All protocols run since the beginning of the last month are available to view. You can filter runs by basket ID and reagent/wax lot number. You can also choose to display All protocols run or those run in the last month or the last 30 days. Highlight the protocol reports you wish to view and tap **Generate**.



The **Run Details Report** contains all the information pertinent to that protocol run. Any events that occurred during the run are detailed at the bottom of the report under Run Events.

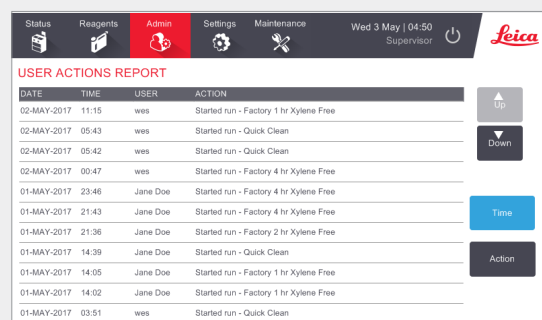
To export the report, insert a USB drive and tap **Export**. Exported files can be saved to your computer and viewed.

User Actions Report

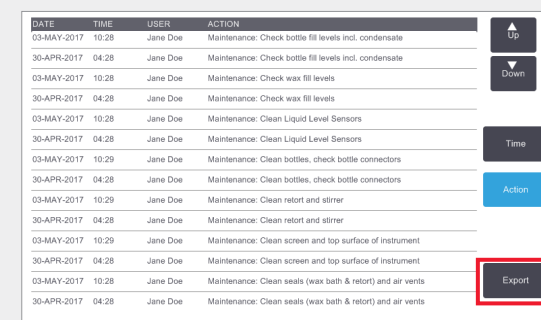


Navigate to Admin > Reports and tap **User Actions Report**.

User names are visible in Supervisor mode.



The **User Actions Report** lists all actions performed requiring the operator's user name since the beginning of the last month. The time, date and type of action are displayed.

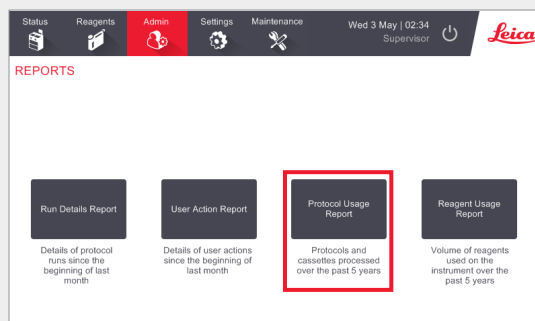


Actions can be filtered by time or the action.

To export the report, insert a USB drive and tap **Export**. Exported files can be saved to your computer and viewed.

PELORIS 3 Reports

Protocol Usage Report



Navigate to Admin > Reports and tap **Protocol Usage Report**.

The Protocol and Cassette Report shows the number of protocol runs and cassettes used over the past 5 years.

Status

Reagents

Admin

Settings

Maintenance

Wed 3 May | 22:09
Supervisor

Protocol and Cassette Report - PREVIEW

RUNS

	MAY-17	APR-17	MAR-17	FEB-17	JAN-17	DEC-16	NOV-16
Factory 1 hr Xylene Free	0	2	0	0	0	0	0
Factory 4 hr Xylene Free	2	0	0	0	0	0	0
Total	2	2	0	0	0	0	0

CASSETTES

	MAY-17	APR-17	MAR-17	FEB-17	JAN-17	DEC-16	NOV-16
Factory 1 hr Xylene Free	0	300	0	0	0	0	0
Factory 4 hr Xylene Free	300	0	0	0	0	0	0
Total	300	300	0	0	0	0	0

CASSETTES PER RUN

	MAY-17	APR-17	MAR-17	FEB-17	JAN-17	DEC-16	NOV-16
Factory 1 hr Xylene Free	0	150	0	0	0	0	0
Factory 4 hr Xylene Free	150	0	0	0	0	0	0
Total	150	150	0	0	0	0	0

Up

Down

Monthly

Weekly

Daily

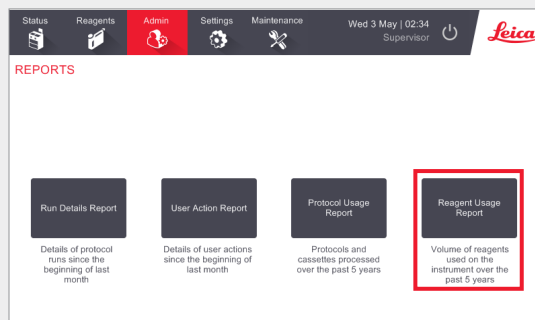
Export

The **Protocol and Cassette Report** provides metrics on the protocol types run as well as the cassettes run per protocol.

The report can be filtered by day, week or month.

To export the report, insert a USB drive and tap **Export**. Exported files can be saved to your computer and viewed.

Reagent Usage Report



Navigate to Admin > Report and tap **Reagent Usage Report**.

The **Reagent Usage Report** shows the volume of reagents used on the instrument over the past 5 years.

Status	Reagents	Admin	Settings	Maintenance	Wed 3 May 23:19	Supervisor	Leica																																																																																								
REPORTS																																																																																															
<div> <div>Run Details Report</div> <div>User Action Report</div> <div>Protocol Usage Report</div> <div>Reagent Usage Report</div> </div>																																																																																															
<div> <div>Details of protocol runs since the beginning of last month</div> <div>Details of user actions since the beginning of last month</div> <div>Protocols and cassettes processed over the past 5 years</div> <div>Volume of reagents used on the instrument over the past 5 years</div> </div>																																																																																															
<div> <div> <div>REAGENT CHANGE REPORT - PREVIEW</div> <table> <tr> <th>REAGENT (Ltr)</th><th>MAY-17</th><th>APR-17</th><th>MAR-17</th><th>FEB-17</th><th>JAN-17</th><th>DEC-16</th><th>NOV-16</th></tr> <tr> <td>80/20 Ethanol / IPA</td><td>0</td><td>20.0</td><td>0</td><td>0</td><td>0</td><td>0</td><td>0</td></tr> <tr> <td>85% Ethanol</td><td>0</td><td>15.0</td><td>0</td><td>0</td><td>0</td><td>0</td><td>0</td></tr> <tr> <td>Cleaning Ethanol</td><td>0</td><td>15.0</td><td>0</td><td>0</td><td>0</td><td>0</td><td>0</td></tr> <tr> <td>Cleaning Xylene</td><td>0</td><td>5.0</td><td>0</td><td>0</td><td>0</td><td>0</td><td>0</td></tr> <tr> <td>Ethanol</td><td>0</td><td>40.0</td><td>0</td><td>0</td><td>0</td><td>0</td><td>0</td></tr> <tr> <td>Formalin</td><td>0</td><td>10.0</td><td>0</td><td>0</td><td>0</td><td>0</td><td>0</td></tr> <tr> <td>IPA</td><td>5.0</td><td>25.0</td><td>0</td><td>0</td><td>0</td><td>0</td><td>0</td></tr> <tr> <td>Wax</td><td>0</td><td>5.0</td><td>0</td><td>0</td><td>0</td><td>0</td><td>0</td></tr> <tr> <td>Waxsol</td><td>0</td><td>10.0</td><td>0</td><td>0</td><td>0</td><td>0</td><td>0</td></tr> <tr> <td>Xylene</td><td>0</td><td>20.0</td><td>0</td><td>0</td><td>0</td><td>0</td><td>0</td></tr> </table> </div> <div> <div> <div>Monthly</div> <div>Weekly</div> <div>Daily</div> </div> </div> </div>								REAGENT (Ltr)	MAY-17	APR-17	MAR-17	FEB-17	JAN-17	DEC-16	NOV-16	80/20 Ethanol / IPA	0	20.0	0	0	0	0	0	85% Ethanol	0	15.0	0	0	0	0	0	Cleaning Ethanol	0	15.0	0	0	0	0	0	Cleaning Xylene	0	5.0	0	0	0	0	0	Ethanol	0	40.0	0	0	0	0	0	Formalin	0	10.0	0	0	0	0	0	IPA	5.0	25.0	0	0	0	0	0	Wax	0	5.0	0	0	0	0	0	Waxsol	0	10.0	0	0	0	0	0	Xylene	0	20.0	0	0	0	0	0
REAGENT (Ltr)	MAY-17	APR-17	MAR-17	FEB-17	JAN-17	DEC-16	NOV-16																																																																																								
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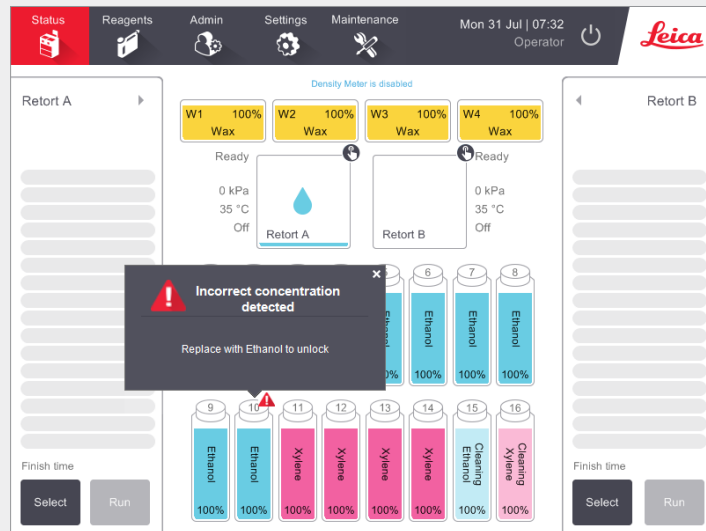
The **Reagent Usage Report** provides metrics on reagent usage.

The report can be filtered by day, week or month.

To export the report, insert a USB drive and tap **Export**. Exported files can be saved to your computer and viewed.

PELORIS 3 Troubleshooting

The Density Meter has Rejected a Reagent Bottle



The PELORIS 3 has two density meters, one for each retort. Only ethanol (including reagent-grade ethanol and IPA-ethanol mixtures), IPA and xylene reagents will be checked by the density meters. Fixatives, cleaning reagents and reagent substitutes (such as Histolene) are not checked. Checked Reagents are detailed in the HistoCore PELORIS 3 User Manual (which is located under the Leica symbol on the function bar).

The reagent concentration is checked by the density meter when it is first used in a protocol under either of the following conditions:

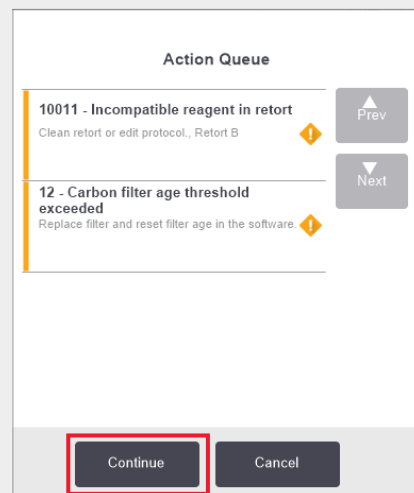
- » The reagent has been replaced.

OR

- » A supervisor has changed the concentration recorded for that reagent.

If the concentration measured by the density meter does not match the concentration value recorded for that bottle on the **Status** screen, the bottle is locked and the warning symbol/message is displayed for that bottle as shown. A locked bottle is skipped in any subsequent run (assuming the run can continue without the locked bottle).

The Action Queue Window



The **Action Queue** window warns you of any actions that are required or recommended before the protocol can be run. Ensure you take note of the message as it also includes steps to take for each code number.

Some of the messages are for information only. They do not prohibit the protocol from starting but should be noted or actioned when possible, for example the "12-Carbon filter age threshold exceeded" message informs the operator that the filter needs replacing. However, you can tap **Continue** and start the protocol.

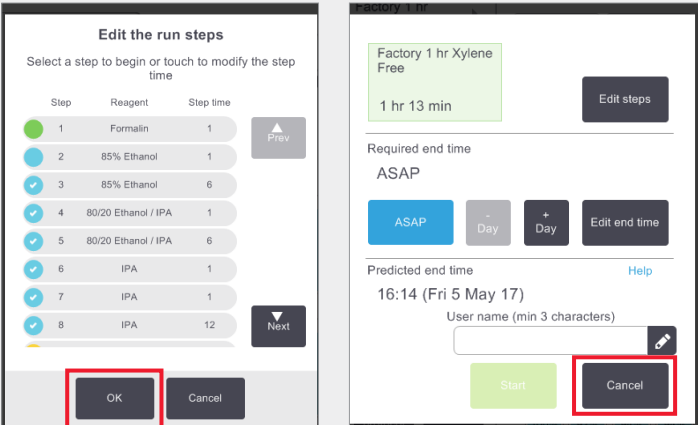
Some action queue messages require immediate operator intervention, as the software will not allow the protocol to be run. In the example shown, the "10011 – Incompatible reagent in retort" message informs the operator to either run a **Quick Clean** or edit the protocol (depending on the reagent in the retort).

If immediate action must be taken and no operator intervention occurs, if you tap **Continue** the protocol will not start and the Action Queue will continue to be displayed.

Action Queue history is located in Admin > Event Logs.

PELORIS 3 Troubleshooting

What to do if you edit single protocol run steps in error



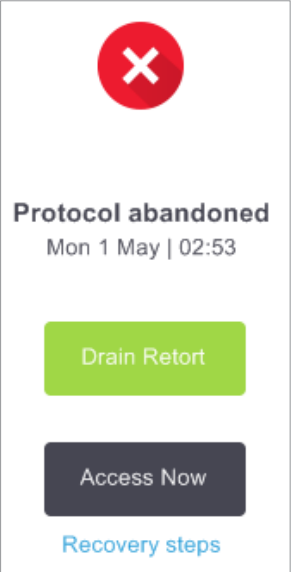
If you realize you have made an error, at this stage you can tap **Cancel**. The edited protocol is displayed on the **Status** screen. From here tap **Unload protocol** to remove and re-load the protocol.

If you have started the protocol and then realized you have made an error, you can abandon the protocol (please see the **Abandoning a Single Protocol** section in this document for steps) and start again.

When you edit steps for a single protocol, the steps are removed from the protocol after you tap **OK**.



What to do when a protocol is abandoned



Gather information

- » Examine the Run Details Report (Admin > Reports > Run Details Report).
- » Examine the event logs (Admin > Event Logs).

Use the information in the report and the logs to determine if the tissue should continue to be processed on the instrument.

- » If the instrument is working correctly but a reagent bottle is missing or its level is low, fix the issue and then refer to the run Run Details Report to decide from which step to continue.
- » If the instrument has failed, use the Run Details Report to decide on the next step. You may need to remove the tissue and continue on another instrument. Call service for assistance.

Warnings

Important Information for All Users



Persons operating the PELORIS 3 tissue processor MUST

- » Follow the instructions for use exactly as described in the user manual. Any deviation from the instructions may result in sub-optimal tissue processing, potential loss of the patient sample and the consequent inability to make a diagnosis.
- » Receive sufficient training to ensure that the instrument is used in accordance with the user manual.
- » Be aware of any potential hazards or hazardous procedures before operating the instrument as described in the user manual.

General Warnings and Cautions

Persons operating the PELORIS 3 must be fully aware of the following warnings, in order to mitigate possible tissue damage or loss.

Reagent Configuration



WARNING

Always ensure that the reagents configured in the software are the actual reagents loaded on the instrument. A station containing different reagent could damage tissue samples.

Replacing Reagents



WARNING

Always change reagents when prompted.

Always update station details correctly – never update the details without replacing the reagent.

Failure to follow these directives can lead to tissue damage or loss.



WARNING

Do not alter the concentration of a used reagent unless you are able to verify the actual concentration. If the concentration is incorrect, a reduction in tissue processing quality or damage to the tissue sample may result.

Protocol Validation**WARNING**

Do not set new protocols as validated until they have passed the validation procedures for your laboratory. Only then should you edit the protocol to set it as valid, making it available to operators for clinical use (see 4.1.4 Protocol Validation). Use of non-validated protocols may result in tissue damage or loss.

Basket and Cassette Loading**WARNING**

Always ensure the cassettes are correctly inserted into the baskets and that the baskets are correctly placed in the retorts. Incorrectly placed cassettes or baskets may lead to samples being damaged, as some tissue may not be fully covered by reagent during processing (see 2.2.4 Cassette Baskets).

**WARNING**

Never place three baskets into a retort when the instrument is configured with a two-basket fill level. If this occurs, reagent will not cover the top basket and tissue samples will be damaged.

Cleaning Protocol**WARNING**

Do not load unprocessed tissue samples into a retort prior to running a cleaning protocol. Formalin in the residue purged to the wax bath at the start of the cleaning run may damage tissue on subsequent runs.

If you inadvertently load unprocessed samples into a retort prior to running a cleaning protocol, remove the samples and attempt to load a processing protocol before loading the cleaning protocol. The purge before the cleaning run will be skipped.

**WARNING**

Remove all tissue from the retort before running a cleaning protocol, as the dry step will damage the tissue.

**WARNING**

Do not use cleaning protocols for reprocessing, as the dry step will damage the tissue.

Security and Malware

Access Level and Supervisor Password Rules

Use the **Access Level** screen (**Admin > Access Level**) to set a user's access level.

- » To change the access level, tap the appropriate button: **Operator** or **Supervisor**. You have to provide a password* if changing to supervisor level.
- » To change the supervisor password, tap the **Change password** button beside the **Supervisor** button, enter the current password* and then the new password.

The new password must meet the following criteria:

- Must be at least 10 characters long.
- Must contain at least one character from at least three of the following groups:
 - Upper case letters of European languages
 - Lower case letters of European languages
 - Unicode characters (for languages that do not have upper/lower case characters)
 - Numeric values (0 – 9)
 - Non-alphanumeric characters (for example !, @, #, \$, %, ^ or &)
- » If the entered password does not meet the criteria above, the following message will be displayed:
Password entered does not meet complexity criteria – refer to User Manual.
- » If the Supervisor password is forgotten or lost:
 - You will have to provide a code which must be obtained from your technical support representative.
 - Tap the **Reset Password** button.
Contact local technical support representative for a password reset code.
Enter the code provided:
 - Once the supplied code has been entered, you will be prompted to enter a new password twice. If the new passwords entered do not match, the following message is displayed:
Passwords entered do not match – please retry.

*If the Supervisor password is entered incorrectly 5 times, the Supervisor and Change Password buttons will be disabled for 5 minutes.

User Management

Each user must have a unique user name. They are required to enter their user name when prompted.

With Access Level set to **Supervisor**, use the **User Management** screen (**Admin > User Management**) to create new users and manage user details.

- » To create a new user:
 - Tap the **New** button.
 - Enter the details for the new user. Note that each person's user name must be unique.
 - Tap **Save**.
- » To edit user details:
 - Tap on the user to be edited to highlight it.
 - Tap the **Edit** button.
 - Edit the details as required.
 - Tap **Save**.
- » To delete a user:
 - Tap on the user to be deleted to highlight it.
 - The **Are you sure you want to delete...** message is displayed.
 - Tap **OK** to confirm.

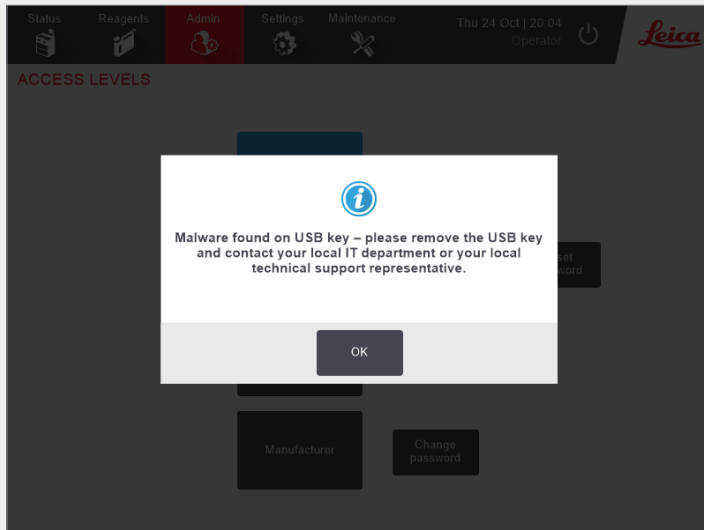
Use the **Import/Export** feature to copy the list of users from one PELORIS 3 instrument to other PELORIS 3 instruments of the same or above software version.

- » Insert a USB key into a USB port on the PELORIS 3 instrument that has the list of users on it.
- » Tap the **Export** button. The **Transfer Complete** message is displayed.
- » Tap the **Done** button.
- » Remove the USB key from the instrument.
- » Insert the same USB key into another PELORIS 3 instrument of the same or above software version.
- » Go to **Admin > User Management** and tap the **Import** button.

The list of users from the initial instrument is now available on the second instrument.

Security and Malware

Malware Detection



The instrument is equipped with an anti-malware scanner which will scan any inserted USB key. The system will not complete the export or import operation until the anti-malware scan is completed. While the anti-malware scanner is scanning the inserted USB key, the following message will be displayed:

Scanning of USB key in progress (scan time will depend on the contents of the USB key) ...

If no malware is detected, the import/export operation will proceed as normal.

If the anti-malware scanner detects malware on the inserted USB key, the following message will be displayed, and the import or export operation will fail. Please remove the USB key and do not use it.

Malware found on USB key – please remove the USB key and contact your local IT department or your local technical support representative.

Recommendations:

- » Use a dedicated USB key for transfers.
- » Manage the contents by deleting unnecessary files on the dedicated USB key to minimise scan times.
- » If the scan takes longer than expected, remove the USB key (which aborts the scan and transfer), remove unnecessary files, and retry the operation.