

Parsortix® PR1 System

Maintenance Guide



For Research Use Only. Not for use in diagnostic procedures.

Weekly Maintenance

The following procedure should be performed weekly. Refer to the Parsortix Operating Manual for details.

Check Tubing:

- Check that the tubing connecting the instrument is not kinked. Specifically check tubing connecting:
 - ✓ inlet and outlet of clamp to the harvest valve
 - ✓ instrument to buffer, priming and cleaning reservoir
 - ✓ instrument to waste reservoir

Check Filters:

- Check that the filters on the buffer and waste reservoirs are in place and are not contaminated or damaged (filters should be colourless). Replace if necessary.

Clean Clamp Gaskets:

- Use a diH₂O-soaked wipe to gently clean the clamp gaskets.

External Cleaning:

- Check there are no visible leaks around the instrument, particularly at the cassette clamp. Contact your local ANGLE technical support provider if any leaks are observed.
- Clean the external cover of the instrument with a weak detergent (70% ethanol or isopropanol) followed immediately by diH₂O-soaked wipe.
- Check that the O-rings on the sample mount are in place, clean and in good condition. If damaged, replace them with spares as provided.
- If necessary, remove and clean the drip tray surrounding the vacutainer.

Run Maintenance Protocol:

- Run the maintenance protocol by selecting **PX2_Maintenance**. Press [Run] then [Start].
- At prompt “Waste empty?”, confirm that the waste reservoir bottle is less than 400 mL full and press [OK].
- At prompt “Clean rgt as buffer?”, replace the buffer reservoir bottle with a new bottle filled with minimum 50 mL of cleaning reagent and press [OK].
- At prompt “1X PBS as buffer?”, remove the bottle containing the cleaning reagent and wipe the tubing line to avoid carry-over of any detergent. Replace with the buffer reservoir (removed at previous step) which should be filled with 250 mL of 1xPBS. Press [OK].
- At prompt “Insert New Cassette” “Ready?”, open the cassette clamp and remove the existing cassette. Insert a new cleaning cassette and press [OK].
- The remainder of the protocol will run automatically and will take 1 hour and 15 minutes to complete.
- At prompt “Finished Maintenance” “Back to Main Menu”, press [OK] and [continue] to return to the main menu.
- Ensure that a clean 50 mL Falcon tube is attached to the sample mount.

Reagent Replacement:

Remove and replace all waste, the buffer and the cleaning detergent on a weekly basis.

The priming reagents can be replaced on a monthly basis.

When replacing reagents, hold the lid firmly and turn the bottle/ 50 mL Falcon tube.

Refer to table for reagent replacement.

Reagent	Refill at	Refill to
Buffer reservoir	100 mL	>250 mL
Approved Reagent: PBS 1X (without Calcium and Magnesium)		(at almost full capacity)
Cleaning reservoir	20 mL	250 mL
Approved Reagents: Prokrenz 120 (10% v/v) or Decomatic (10% v/v)		
Priming reservoir	10 mL	100 mL
Approved Reagent: 100% Ethanol (Absolute ethanol)		
Waste reservoir	Empty at 400 mL	After emptying, add 50 mL
Approved Reagents: Decomatic (undiluted) or Prokrenz 120 (undiluted)		of the reagent of choice