

# Cathode Buffer Container (CBC) for 3500/3500xL Genetic Analyzers

Catalog Number 4408256

Pub. No. 4408239 Rev. E

Cat. no.	Description	Storage conditions
4408256	Cathode Buffer Container (CBC) 1X running buffer, 4 containers	Store at 2–8°C. The 1X running buffer has been qualified to ship at ambient conditions. For a description of the qualification, visit <a href="http://lifetechnologies.com/ambientbuffers">lifetechnologies.com/ambientbuffers</a> .

**WARNING!** Read the Safety Data Sheets (SDSs) and follow the handling instructions. Wear appropriate protective eyewear, clothing, and gloves. Safety Data Sheets (SDSs) are available from [www.lifetechnologies.com/support](http://www.lifetechnologies.com/support).

## Product description

The Cathode Buffer Container (CBC) contains 1X running buffer for capillary electrophoresis. The container has two compartments: the left compartment provides the cathode buffer for electrophoresis; the right compartment provides for a capillary wash and spent polymer waste ejection functionality between injections.

The CBC is a ready-to-use, disposable container with a radio frequency identification (RFID) tag incorporated into the label. The instrument uses the RFID tag to track buffer usage and expiration.

## Expiration date/on-instrument supported limits

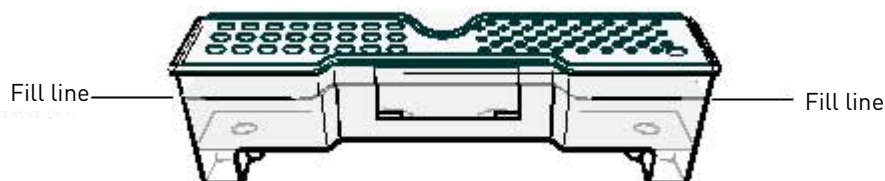
The on-instrument life is determined by the limit that is reached first—number of days after first installation, injections performed, or expiry date. Usage is tracked by the system software.

**IMPORTANT!** The usage limits are determined by the system software. The limits shown below are for Data Collection Software v3.1. If you are running v3.0 or earlier, refer to the user guide provided with the software or instrument.

Instrument	On-instrument supported limits Lower of:	Guidelines
8-capillary	14 days, 240 injections, or expiry date	The buffer has been verified for use for up to 14 days on the instrument. The software displays a warning message when a usage limit is met and allows you to continue running. Before doing so, see "Important notice regarding use of consumables that exceed supported limits" on page 2.
24-capillary	14 days, 100 injections, or expiry date	

## Install the cathode buffer container (CBC)

1. Check the expiration date on the label to ensure it is not expired and will not expire during use.
2. Allow refrigerated CBC to equilibrate to ambient temperature.
3. Wipe away condensation on the CBC exterior with a lint-free tissue. Condensation can cause arcing and termination of the run.
4. Check that seal is intact. Do not use if buffer level is too low or seal has been compromised. A fill tolerance of  $\pm 0.5$  mm is acceptable.



5. Tilt the CBC back and forth gently and carefully to ensure that the buffer is evenly distributed across the top of the baffles. If you do not tilt the CBC back and forth, the buffer sticks to the baffles because of surface tension.
6. Verify that the buffer is at or above the fill line.
7. When ready to install CBC, place the container on a flat surface (such as a lab bench) and peel off the seal.
8. Wipe off any buffer on top of the CBC with a lint-free tissue. Ensure that the top of the container is dry. Moisture can cause arcing and termination of a run.

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

9. Place the appropriate septum on each side of the CBC:
  - a. Align the buffer septum (the part that is symmetrical) over the 24 holes of the CBC.
  - b. Push the septum lightly into the holes to start and then push firmly to seat it.
  - c. Align the capillary washing septum over the other chamber of the CBC.
  - d. Push the septum lightly into the holes to start and then push firmly to seat it.

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**IMPORTANT!** Look at the CBC from the side and ensure there is no gap between the container and the lip of the septum.

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**IMPORTANT!** Ensure that the washing septum is securely seated to prevent displacement of the septum during operation.

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10. Click the Tray button on the front panel to move the autosampler to the front position.
11. With the tab facing you and the RFID tag to the right, install the CBC on the autosampler. When properly installed, the CBC tabs will click as you snap them into place on the autosampler.
12. Click the Tray button to retract the autosampler, then close the instrument door to initialize.
13. In the Dashboard, click **Refresh**, then check the Quick View section for updated status.

## Important notice regarding use of consumables that exceed supported limits

**BEFORE DISMISSING THE WARNING THAT THE CONSUMABLES HAVE REACHED SUPPORTED LIMITS AND CONTINUING WITH OPERATION OF THE INSTRUMENT, PLEASE READ AND UNDERSTAND THE FOLLOWING IMPORTANT NOTICE AND INFORMATION:**

Life Technologies does not recommend the use of consumables that exceed supported limits. The recommended limits are designed to promote the production of high quality data and minimize instrument downtime. Reagent and consumable lifetime minimum performance are based on testing and studies that use reagents and consumables that have not exceeded supported limits.

The use of consumables beyond the supported limits may impact data quality or cause damage to the instrument or capillary array. The cost of repairing such damage is *NOT* covered by any Life Technologies product warranty or service plan. Customer use of expired consumables is at customer's own risk and without recourse to Life Technologies. For example, product warranties do not apply to defects resulting from or repairs required due to misuse, neglect, or accident including, without limitation, operation outside of the environmental or use specifications or not in conformance with Life Technologies instructions for the instrument system, software, or accessories.

Please see your specific service contract or limited product warranty for exact language regarding coverage and ask your Life Technologies representative if you have further questions.

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