



PwrPOP™-4, PwrPOP™-6, and PwrPOP™-7 Polymers for SeqStudio Flex and 3500 Series User Manual

Catalog Number

Catalog Number	Unit Size	Usage	Limit of Injections
340384	384 samples	No RFID included, for RUO applications	No
345384	384 samples	ADS RFID included	60 for 8-capillary, or 20 for 24-capillary
340960	960 samples	No RFID included, for RUO applications	No
345960	960 samples	ADS RFID included	120 for 8-capillary, or 50 for 24-capillary
360384	384 samples	No RFID included, for RUO applications	No
365384	384 samples	ADS RFID included	60 for 8-capillary, or 20 for 24-capillary
360960	960 samples	No RFID included, for RUO applications	No
365960	960 samples	ADS RFID included	120 for 8-capillary, or 50 for 24-capillary
370384	384 samples	No RFID included, for RUO applications	No
375384	384 samples	ADS RFID included	60 for 8-capillary, or 20 for 24-capillary
370960	960 samples	No RFID included, for RUO applications	No
375960	960 samples	ADS RFID included	120 for 8-capillary, or 50 for 24-capillary

Product Description

PwrPOP™-4, PwrPOP™-6, and PwrPOP™-7 polymers are alternatives to POP-4, POP-6, and POP-7, respectively, and are used as separation matrix in capillary electrophoresis for sequencing and/or fragment analysis. PwrPOP™-4 is commonly used for human identification and forensic analysis; PwrPOP™-6 is used for certain sequencing applications such as



sequencing of nucleotides close to the primer sites; PwrPOP™-7 is the most versatile and can be used for sequencing of both long and short sequences in shorter time and can also be used for fragment analysis.

The three different types of polymers (PwrPOP™-4, -6, and -7) are individually packed in disposable pouches for use on AB 3500 Genetic Analyzers (3500/3500XL). The polymer usage and expiration are either tracked with new radio frequency identification (RFID) electronic tags or not tracked depending on your intended use.

Product Storage

The products are shipped with blue ice and should be stored at 4°C after arrival. Allow the polymer to equilibrate to room temperature before use on the genetic analyzers.

Product Usage Guidelines

Before the product is used, the shelf life is the expiry date on the product label. Once the product is installed on the instrument, the shelf life will be determined by the software through reading the information of the RFID tag on the pouch. However, the temperature of the environment also affects the product life of the polymer. For these polymers, the optimal shelf life would be 14 days at 15°C to 25°C or 7 days above 25°C. Even though the products may still provide optimal sequencing results after the recommended periods, users should be cautious when using old polymers.

Installation of polymer pouch on SeqStudio Flex and 3500 Series Genetic Analyzers

1. Take out a new polymer pouch from the fridge and leave it at room temperature for 20 minutes. Check the product label to make sure the product is not expired or will expire during usage. Do not use a damaged product.
2. In the Dashboard, click **Wizards**, then click **Replenish Polymer** if the same type of polymer will be used or **Change Polymer Type** if a different type of polymer will be replaced (for instance, change PwrPOP™-6 to PwrPOP™-7).

Note: When changing to a new polymer type, a conditional reagent pouch (not included) and an empty anode buffer tray will be also needed.



3. Follow the instructions in the Wizard window. Remove the old pouch from the instrument by lowering the connection lever to release the pouch from the connector of the pump.
4. Peel off the seal at the top of the new pouch when instructed to install the polymer.
5. At the step of polymer installation, make sure that the RFID label on the pouch is on the back of the polymer bag (away from the operator). Slide the fitment below the pouch opening to fit onto the slot of the lever assembly. Push the lever up to snap the pouch into the connector end of the pump.
6. Follow the instructions in the Wizard window to finish the rest of the steps.
7. After the new pouch is installed, go back to the Dashboard and click **Refresh** to update the polymer information. Now, the new polymer is ready to use.