



PwrPOP™-4, PwrPOP™-6, and PwrPOP™-7 Polymers for AB 3500 Genetic Analyzers User Manual

Catalog Numbers

Catalog Number	Unit Size	Limit of Injections	Usage
340384	384 samples	60 for 8-capillary, or 20 for 24-capillary	No RFID included, for RUO applications with software version 3.1 or 3.3
341384	384 samples	60 for 8-capillary, or 20 for 24-capillary	ADS RFID included, for software version 1.0
340960	960 samples	120 for 8-capillary, or 50 for 24-capillary	No RFID included, for RUO applications with software version 3.1 or 3.3
341960	960 samples	120 for 8-capillary, or 50 for 24-capillary	ADS RFID included, for software version 1.0
360384	384 samples	60 for 8-capillary, or 20 for 24-capillary	No RFID included, for RUO applications with software version 3.1 or 3.3
361384	384 samples	60 for 8-capillary, or 20 for 24-capillary	ADS RFID included, for software version 1.0
360960	960 samples	120 for 8-capillary, or 50 for 24-capillary	No RFID included, for RUO applications with software version 3.1 or 3.3
361960	960 samples	120 for 8-capillary, or 50 for 24-capillary	ADS RFID included, for software version 1.0
370384	384 samples	60 for 8-capillary, or 20 for 24-capillary	No RFID included, for RUO applications with software version 3.1 or 3.3
371384	384 samples	60 for 8-capillary, or 20 for 24-capillary	ADS RFID included, for software version 1.0
370960	960 samples	120 for 8-capillary, or 50 for 24-capillary	No RFID included, for RUO applications with software version 3.1 or 3.3
371960	960 samples	120 for 8-capillary, or 50 for 24-capillary	ADS RFID included, for software version 1.0



Product description

PwrPOP-4, PwrPOP -6, and PwrPOP -7 polymers are close 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 the software version of the instrument. For software version lower than 2.0 (not including 2.0), the new RFID tag provided with the polymer pouch will be used for tracking; for Research-Use-Only (RUO) software version 3.1 or 3.3, use ABI's original RFID with our polymer pouches above. These products are not used for *In vitro* Diagnostics AB3500 DX Genetic Analyzers. To use these products, software version 2.0 or 3.0 needs to be upgraded to version 3.1 or 3.3.

Storage conditions

The polymers should be shipped and stored at 4°C until use.

Product shelf life

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 PwrPOP-4 and -7 polymers, the shelf life would be 14 days at 15 °C to 25°C or 7 days above 25°C. For PwrPOP-6, the shelf life is 14 days. Even though the products may still provide optimal sequencing results after the recommended periods, users should caution not to take their own risks for using older polymers.



Installation of polymer pouch on AB 3500 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.