POP-4™, POP-6™, and POP-7™ Polymers

SeqStudio™ Flex and 3500 series instruments

Pub. No. 4408234 Rev. G

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 **thermofisher.com/support**.

Product description

The polymer is the separation matrix for capillary electrophoresis. It is supplied as a ready-to-use pouch with a radio frequency identification (RFID) tag incorporated into the label. The instrument uses the RFID tag to track polymer usage and expiration.

Contents and storage

Item	Cat. No. (96 samples, 3500 series only)	Cat. No. (384 samples)	Cat. No. (960 samples)	Storage (for all polymers)
POP-4™ Polymer	A26070	4393715 [1]	4393710 [1]	2–8°C
POP-6™ Polymer	A26071	4393717	4393712	
POP-7™ Polymer	A26073	4393708	4393714	

[1] The polymer has been validated for HID applications.

Required materials not supplied

If you are changing the POP™ polymer type, you also need Conditioning Reagent.

Instrument	Name	Cat. No.
SeqStudio™ Flex and 3500 series	Conditioning Reagent Kit 3500/Flex Series	4393718

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, samples run, injections performed, or expiry date. Usage is tracked by the system software.

IMPORTANT! For the POP-4™ and POP-7™ Polymers (Cat. Nos. A26070, 4393715, 4393710, A26073, 4393708, and 4393714), the on-instrument supported limit is 14 days only when the instrument operating temperature is 15–25°C. When the instrument operating temperature is > 25°C, the supported limit is 7 days.

For the POP-6™ Polymers (Cat. Nos. A26071, 4393717, and 4393712), the on-instrument supported limit is 14 days when the instrument operating temperature is 15–30°C.

Pouch size	Instrument	On-instrument supported limits[1] Lower of:	Guidelines
96 samples	8-capillary	14 days, 96 samples, 12 injections, or expiry date	The polymer 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, 96 samples, 5 injections, or expiry date	
384 samples	8-capillary	14 days, 384 samples, 60 injections, or expiry date	
	24-capillary	14 days, 384 samples, 20 injections, or expiry date	
960 samples	8-capillary	14 days, 960 samples, 120 injections, or expiry date	
	24-capillary	14 days, 960 samples, 50 injections, or expiry date	

[1] The pouch has adequate polymer to support the stated number of samples or injections, plus additional volume to accommodate installation and wizard operations. Multiple pouch installations and/or excessive use of wizards reduce the number of remaining samples and injections. For example, if you run the **total bubble remove** option in the Remove Bubbles wizard more than four times, the number of remaining samples and injections is reduced.

Precautions for use

- Do not reuse a polymer pouch that has been installed on another type of instrument. For example, if you remove a partially used polymer pouch from an 8-capillary instrument, do not reuse that polymer on a 24-capillary instrument.
- If you remove a polymer pouch for storage (2–8°C), place a pouch cap (Cat. No. 4412619) onto the pouch, then place an empty pouch (or conditioning reagent) on the connector to prevent desiccation of any residual polymer on the connector. Follow the instructions in the wizard to ensure proper operation of the pouch and the instrument.

Replenish polymer or change polymer type

1. Check the expiration date on the label to ensure that the polymer is not expired and will not expire during intended use.

   IMPORTANT! Do not use if the product is expired, if the pouch or label is damaged, or if the top seal is missing or damaged.

2. Allow the refrigerated polymer to equilibrate to room temperature (15–30°C) before use.
3. In the instrument software, go to the **Wizards** menu, then click **Replenish Polymer** (requires 10–20 minutes) or **Change Polymer Type** (requires 60–70 minutes).

   Note: If you are changing the polymer type, you also need Conditioning Reagent.
4. Follow the prompts in the Wizard window.
5. When instructed to install the polymer, peel off the seal at the top of the pouch fitting.

   Note: You may notice a tiny droplet of polymer inside the fitting (residual from the pouch filling process). This is *not* expected to cause any performance issues.

To install the polymer on the instrument and start the run, see your instrument user guide.

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:

Thermo Fisher Scientific 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 Thermo Fisher Scientific product warranty or service plan. Customer use of expired consumables is at customer's own risk and without recourse to Thermo Fisher Scientific. 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 Thermo Fisher Scientific 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 Thermo Fisher Scientific representative if you have further questions.

Limited product warranty

Life Technologies Corporation and/or its affiliate(s) warrant their products as set forth in the Life Technologies' General Terms and Conditions of Sale at **www.thermofisher.com/us/en/home/global/terms-and-conditions.html**. If you have any questions, please contact Life Technologies at **www.thermofisher.com/support**.

Life Technologies Corporation | 1455 Concord Street | Framingham, Massachusetts 01701 USA
For descriptions of symbols on product labels or product documents, go to thermofisher.com/symbols-definition.

Revision history: Pub. No. 4408234

Revision	Date	Description
G	31 January 2022	Added the SeqStudio™ Flex Series Genetic Analyzer. Added required materials table. Revised procedure to apply to different instrument models. Updated branding and legal information.
F	18 December 2015	Baseline for this revision.