Instructions For Use

NimaPOP™
Polymers and 10x Running Buffer
For 3500/3500XL and SeqStudio™ Flex Genetic Analyzers

NimaGen.

Innovators in
DNA Sequencing
Technologies

Product and Company Information

NimaPOP™ Polymers and 10x Running Buffer for 3500/3500XL and SeqStudio™ Flex Genetic Analyzers

REF   NIP4-384, NIP4-960, NIP6-384, NIP6-960, NIP7-384, NIP7-960, NIB-3500

Research Use Only

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Symbols Used on Product Labels and in Instructions For Use

Symbol	Description
Manufacturer symbol	Manufacturer
Use-by date symbol	Use-by date
LOT	Lot number
REF	Reference number
Temperature limit symbol	Temperature limit for storage
Contains sufficient for tests symbol	Contains sufficient for *<n>* tests
Matrix code symbol	Matrix code containing the reference number, lot number and use-by date

Product Description

NimaPOP™ Polymers

NimaPOP™ Polymers are a pre-formulated separation matrix for fluorescent labeled DNA products in capillary electrophoresis, compatible with BigDye® and BrilliantDye™ chemistries in Sanger-based cycle sequencing and fragment analysis.

Polymers dynamically coat the capillary array wall to control electro-osmotic flow and are optimized to separate DNA fragments of a known size range at a desired resolution and run time:

- NimaPOP™-4 for fragment analysis in HID/forensic applications.
- NimaPOP™-6 for standard sequencing and fragment analysis.
- NimaPOP™-7 for short- to long-read sequencing and fragment analysis.

NimaPOP™ Polymers for 3500 Series/SeqStudio™ Flex Genetic Analyzers (8 or 24 capillaries) are conveniently offered in Radio Frequency IDentification (RFID)-labeled ready-for-use pouch packages for 384 or 960 samples. RFID labels:

- facilitate easy tracking of polymer usage and expiry dates, all displayed on the Genetic Analyzer software dashboard, supporting your quality control requirements for ISO 17025 compliance.
- are compatible with all Genetic Analyzer Data Collection Software versions, including Software 3 (RUO) and 4 (HID).

NimaPOP™ Polymer pouches are a direct drop-in replacement for Applied Biosystems POP™ Polymer pouches for 3500 Series/SeqStudio™ Flex and can be used without any requirement for changes in run protocol, conditions or spectral calibrations.

NimaPOP™ 10x Running Buffer

The NimaPOP™ 10X Running Buffer (with EDTA) is a refill running buffer for 3500 Series/SeqStudio™ Flex Genetic Analyzers. When diluted ten-fold to a 1x Running Buffer, it is transferred into the anode (ABC) and cathode (CBC) buffer containers on the Genetic Analyzer. Both containers are then re-labeled with corresponding self-adhesive RFID labels that come with every bottle of NimaPOP™ 10x Running Buffer (NIB-3500). Every bottle of Running Buffer contains enough concentrated buffer, to refill both ABC and CBC containers 4 times. For one fill, dilute 15 mL of 10x concentrated buffer to 150 mL with dH_2O. Fill the containers until the fill line.

Pouches and Buffer Contents and Storage

NimaPOP™ Polymers

NimaPOP™ 384 samples pouches for 3500 Series/SeqStudio™ Flex contain polymer sufficient for 60 injections (8-capillary) or 20 injections (24-capillary). The 960 samples pouches provide respectively 120 injections (8-capillary) or 50 injections (24-capillary).

Each pouch includes additional volume of polymer to accommodate both installation and a reasonable number of post-installation wizard operations, such as bubble removal, without affecting the number of samples or injections available.

Contents	Reference (384 Samples)	Reference (960 Samples)	Storage
NimaPOP™-4 Pouch	NIP4-384	NIP4-960	Store at 2 - 8 °C, protected from light. Do not freeze.
NimaPOP™-6 Pouch	NIP6-384	NIP6-960	
NimaPOP™-7 Pouch	NIP7-384	NIP7-960	

NimaPOP™ 10x Running Buffer

Every bottle of 10x NimaPOP™ Running Buffer for 3500 Series/SeqStudio™ Flex comes with 4 new self-adhesive RFID labels for the ABC and 4 new labels for the CBC containers. A bottle contains enough buffer for a total of 4 refills.

Contents	Reference	Storage
NimaPOP™ 10x Running Buffer, 60 mL, incl. 4x ABC + 4x CBC RFID	NIB-3500	Store at room temperature.

Required Materials (Optional), Not Included

Description	Manufacturer	Reference
Anode Buffer Container (ABC), 3500/SeqStudio™ Flex	Thermo Fisher	4393927
Cathode Buffer Container (CBC), 3500/SeqStudio™ Flex	Thermo Fisher	4408256
Conditioning Reagent Kit for 3500/SeqStudio™ Flex	Thermo Fisher	4393718

General Precautions

Read the Material Safety Data Sheet (MSDS) and follow the handling instructions. Adhere to good laboratory practice and wear protective eyewear, gloves and lab coat when handling the polymers or buffers supplied. Wash body parts with ample amount of water immediately if they come in contact with the polymers or buffers. Seek medical help if needed.

Protocol

1. Allow refrigerated NimaPOP™ Polymer to equilibrate to room temperature before use on the Genetic Analyzer.

   Note: Following refrigeration, tiny droplets/crystals of polymer may be visible inside the pouch. These should be dissolved prior to use. To dissolve polymer deposits/crystals: bring the polymer to 15 - 30 °C (this may take up to 2 hours).

2. In the Genetic Analyzer software, go to the Wizards menu, then click "Replenish Polymer" (requires 10 - 20 min) or click "Change Polymer Type" (requires 60 - 70 minutes).

   Note: When changing NimaPOP™ or POP™ Polymer type, Conditioning Reagent is needed.

3. Follow the prompts in the Wizard window. When instructed to install the polymer, open the pouch fitting. To install the polymer on the instrument and start the run, see your 3500 Series/SeqStudio™ Flex user guide.

   Note: Tiny droplets/crystals of polymer may be inside the fitting (residual from the pouch filling process). This is not expected to cause any performance issues.

Customer Support

For technical assistance, please contact us at techsupport@nimagen.com.

Revision History

Section	Summary of changes	Version	Date
All	New document.	1.0	2023-06-23
Page 6	Further clarified "droplets" to "droplets/crystals"	1.1	2024-02-02