

# Instructions For Use

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## **NimaPOP™**

### **Polymers and 10x Running Buffer**

For 3500/3500XL and SeqStudio™ Flex Genetic Analyzers

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**NimaGen.**

Innovators in  
DNA Sequencing  
Technologies

## Product and Company Information

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



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



Research Use Only











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QUALITY MANAGEMENT SYSTEM

ISO 9001:2015      FM 711484  
ISO 13485:2016    MD 711483

## Symbols Used on Product Labels

Symbol	Description
	Manufacturer
	Use-by date
	Lot number
	Reference number
	Research Use Only
	Temperature limit for storage
	Contains sufficient for <n> tests
	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 RFID-labeled ready-for-use pouch packages for 384 or 960 samples. Radio frequency identification (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 (for 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 (ABC) 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 vials 4 times. For one fill, dilute 15 mL of 10x concentrated buffer to 150 mL with dH<sub>2</sub>O. Fill 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: Tiny droplets of polymer may be visible inside the pouch, following refrigeration. This is not expected to cause any performance issues and should disappear when at 15 - 30 °C.

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 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](mailto:techsupport@nimagen.com).

## Legal Notice

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