

# Instructions For Use

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## **NimaPOP™**

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

For 3130/3130XL Genetic Analyzers

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**NimaGen.**

Innovators in  
DNA Sequencing  
Technologies

## Product and Company Information

### **NimaPOP™ Polymers and 10x Running Buffer for 3130/3130XL Genetic Analyzers**










NIP4-005, NIP4-010, NIP6-005, NIP6-010, NIP7-005, NIP7-010,  
NIB-025, NIB-100, NIB-500

Research Use Only



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## Symbols Used on Product Labels and in Instructions For Use

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

## Product Description

### *NimaPOP™ Polymer*

NimaPOP™ Polymer is 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, e.g. 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 3130/3130XL Genetic Analyzers (4 or 16 capillaries) are conveniently offered in ready-for-use bottles of 5 mL or 10 mL.

NimaPOP™ Polymers are a direct drop-in replacement for Applied Biosystems POP™ Polymer for 3130 Series 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 concentrated running buffer for capillary electrophoresis on Applied Biosystems Genetic Analyzers. When diluted ten-fold to a 1x Running Buffer, it is transferred into the anode and cathode buffer reservoirs on the 3130 Series Genetic Analyzer.

## Polymer and Buffer Contents and Storage

### *NimaPOP™ Polymer*

NimaPOP™ 5 mL and 10 mL bottles contain polymer sufficient for analysis of up to 250 and 960 samples respectively.

Contents	Reference	Storage
NimaPOP™-4, 5 mL	NIP4-005	Store at 2 - 8 °C, protected from light. Do not freeze.
NimaPOP™-4, 10 mL	NIP4-010	
NimaPOP™-6, 5 mL	NIP6-005	
NimaPOP™-6, 10 mL	NIP6-010	
NimaPOP™-7, 5 mL	NIP7-005	
NimaPOP™-7, 10 mL	NIP7-010	

### *NimaPOP™ 10x Running Buffer*

The 10x concentrated NimaPOP™ Running Buffer is available in three different bottle volumes, providing 250 mL up to 5 L 1x Running Buffer, accommodating low- to high-throughput applications.

Contents	Reference	Storage
NimaPOP™ 10x Running Buffer, 25 mL	NIB-025	Store at room temperature.
NimaPOP™ 10x Running Buffer, 100 mL	NIB-100	
NimaPOP™ 10x Running Buffer, 500 mL	NIB-500	

## 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 polymer or buffers supplied. Wash body parts with ample amount of water immediately if they come in contact with the polymer or buffer. Seek medical help if needed.

## Protocol

### *NimaPOP™ Polymer*

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

Note: Following refrigeration, deposits/crystals may be visible inside the bottle. 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) and gently swirl the polymer bottle.

2. In the Genetic Analyzer software, go to the Wizards menu, then click “Replenish Polymer” or click “Change Polymer Type”.
3. Follow the prompts in the Wizard window. When instructed to install the polymer, remove the screw cap from the bottle. To install the polymer on the instrument and start the run, see your 3130/3130XL user guide.

### *NimaPOP™ 1x Running Buffer*

1. To prepare 1x Running Buffer for 3130/3130XL (4 or 16 capillaries), add 5 mL of 10x Running Buffer with EDTA into a graduated cylinder. Add 45 mL deionized water to bring the total volume to 50 mL. Mix well and set aside.
2. For filling the running buffer anode and cathode buffer reservoirs, see your 3130/3130XL user guide.
3. The 1x Running Buffer can be stored at 2 to 8 °C for up to 1 month. Bring the buffer to room temperature before use.
4. Replace the 1x Running Buffer in the anode and cathode buffer reservoirs every 24 hours, or before each batch of runs.

## Customer Support

For technical assistance, please contact us at [techsupport@nimagen.com](mailto:techsupport@nimagen.com).

## Revision History

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

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