

ReCap[™] Capillary Array Regeneration kit for ABI 3130 series Genetic Analyzer

Quick Reference Guide

*Version: 1.0
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Product and Company Information

Product name:	ReCap [™] Capillary Array Regeneration kit for ABI 3130 series Genetic Analyzer
Product use:	For Research Use Only
Company:	NimaGen BV Lagelandseweg 56 6545 CG Nijmegen The Netherlands
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Kit Content

Description	Content
ReCap Buffer 1	8 mL bottle
ReCap Buffer 2	8 mL bottle
ReCap Buffer 3	8 mL bottle
ReCap Buffer 4	8 mL bottle

Needed, but not included

Description	Manufacturer
Deionized Water	
Clean empty polymer bottle (8 mL)	Nalgene
Fresh NimaPOP 4, 6 or 7 polymer for 3130	NimaGen
Fresh NimaPOP 10x Running Buffer	NimaGen

Introduction

The ReCap™ Capillary Array Regeneration kit offers a complete rejuvenation and revitalization of old and failing capillaries. The kit can be used on capillary arrays that start to lose resolution, or showing smears or tails in the electropherogram. Additionally, it cleans the pump blocks of the machine, preventing or getting rid of yellow or red haze.

Warning: Use good laboratory practice and wear proper protectives, including gloves, goggles and lab coat when handling the buffers supplied in this kit. Wash body parts with ample amount of water immediately if they come in contact with the buffers. Seek medical help if needed.

Quick-start Protocol

1. Start the computer and instrument and launch data collection software
2. Open the doors and remove the left buffer jar from the pump block, Make sure the white drip tray is in place underneath the pump block
3. Fill the empty buffer bottle completely with deionized water and install it at the polymer bottle position
4. Perform and complete a water wash wizard from the wizard pull-down menu
 - ✓ When told to reinstall polymer, do not replace the bottle. Choose for "same lot".
NOTE: When the system during the wizard asks for bubbles visible, always click "no", even if there are bubbles. Because of the lower viscosity of the buffers and water, there will form some bubbles in the pump chamber. This is no problem.
 - ✓ Finish the wizard by filling the capillary array. To do so, doors have to be closed. The array will now be filled with water.
NOTE: This takes only few seconds because of low viscosity
5. After clicking "finish" go to manual control and choose polymer pump
 - ✓ Choose the option: Fill 80 cm capillary (independent of the real cap. length)
 - ✓ Repeat previous step 3 times to rinse the capillaries thoroughly
6. Open the doors of the instrument
7. Install ReCap Buffer 1
8. Repeat step 4 -6 with Buffer 1 instead of water
9. Leave the system for **60 minutes** after finishing step 6 with buffer 1 in capillaries
10. Install Buffer 2
11. Repeat step 4 -6 with Buffer 2 instead of water
12. Leave the system for **5 minutes** after finishing step 6 with buffer 2 in capillaries
13. Install Buffer 3
14. Repeat step 4 -6 with Buffer 3 instead of water
15. Leave the system for **30 minutes** after finishing step 6 with buffer 3 in capillaries
16. Install Buffer 4
17. Repeat step 4 -6 with Buffer 4 instead of water
18. Leave the system for **5 minutes** after finishing step 6 with buffer 4 in capillaries
19. Install bottle with water
20. Repeat step 4 -6 with water in system
21. Refill the bottle with water
22. Perform and complete a water wash wizard from the wizard pull-down menu
 - ✓ When told to reinstall polymer, apply a fresh bottle of polymer
 - ✓ In this last wizard, all bubbles should be gone after polymer is applied
 - ✓ Finish the wizard by filling the capillary array. To do so, doors have to be closed.
 - ✓ Take the white dripping tray from the system, clean and dry it and place back
 - ✓ Remove all buffer and water vials from the instrument, clean them and fill with 1xbuffer / water (where applicable)

NOTE: Similar to a new capillary array, it may take up to two runs for the array to reach optimal performance.

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