



Regeneration Reagent for ABI™ 310, 3100, 3700 & 3130 Sequencing Capillary

What Is Capillary Regeneration?

As the number of injections performed on the capillary increases, the resolution and signal intensity resulting from the capillary will decline. This is primarily due to the adsorption of proteins to the wall of the capillary. Biotaq Capillary has developed a proprietary reagent to regenerate the capillary arrays used on ABI 310, 3100, 3130, 3700, and 3730 instruments. The regeneration reagent cleaves the proteins into smaller fragments, reduces the number of attractive forces per protein molecule, and reduces the force with which each molecule binds to the wall of the capillary. The proteins are then more easily washed away from the capillary walls.

After the regeneration, the capillary performs like new and can be used for many injections. The regeneration reagent provides tremendous savings versus buying new capillaries. The regeneration procedure is simple and can be done by rinsing the reagent through the capillary. The regeneration does not apply to the capillary that is irreversibly blocked.

Special Instructions

Please pull out the plastic bag containing one bottle of regeneration reagent carefully. It contains 5 ml of regeneration reagent. Please check the bottle immediately after you receive this package. Biotaq Capillary is not responsible for any missing items not reported within two (2) business days of receipt.

Storage Conditions

The product is shipped at room temperature and can be stored at room temperature.

Package Content

5ml of regeneration reagent.

Catalog Number

REGN_REAGENT

Brief Protocol for Capillary Regeneration on the ABI 310 Machine:

1. Wash and clean the syringe and pump block.
2. Re-install the pump block and the capillary.
3. Fill the syringe with distilled and deionized water and attach it to the pump block.
4. Flush the capillary by running the Run Seq Fill Capillary module or the Syringe Down function in Manual Control. The polymer in the capillary will be flushed to the waste tube on the autosampler.
5. Fill the syringe with the regeneration reagent and attach the syringe to the pump block.
6. Flush the capillary by running the Run Seq Fill Capillary module or the Syringe Down function in Manual Control. (Please visually check if the droplets of the regeneration reagent are coming off the capillary. It is always a very good practice to have this check!)
7. Repeat step 6 two times. Finally flush the capillary with DD water.
8. The capillary is ready for the next 100 injections (some of our customers report 1000 injections after regeneration).
9. Wash the syringe and pump block with DD water for two times to wash off the regeneration reagent.

For ABI 3100, 3700 & 3130, just rinse capillary with regeneration solution using any rinse run module

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