





NEBNext FFPE DNA Repair Mix (M6630) -Protocol for use with Other User-supplied Library Construction Reagents (M6630)

Symbols

	<i>This caution sign signifies a step in the protocol that has multiple paths leading to the same end point but is dependent on a user variable, like the amount of input DNA.</i>
	<i>Colored bullets indicate the cap color of the reagent to be added to a reaction.</i>

3.1 NEBNext FFPE Repair

Input amount should be determined based on recommendations by end user supplied library preparation kits.

- Mix the following components in a sterile nuclease-free tube:
 - FFPE DNA 53.5 μ l
 -  (green) FFPE DNA Repair Buffer 6.5 μ l
 -  (green) NEBNext FFPE DNA Repair Mix 2 μ l

Total volume 62 μ l

- Mix by pipetting followed by a quick spin to collect all liquid from the sides of the tube.
- Incubate at 20°C for 15 minutes.

3.2 Cleanup Using AMPure XP Beads

- Vortex AMPure XP Beads to resuspend.
- Add 186 μ l (3X) of resuspended AMPure XP Beads to the repair reaction. Mix thoroughly on a vortex mixer or by pipetting up and down at least 10 times.
- Incubate for 5 minutes at room temperature.
- Put the tube/PCR plate on an appropriate magnetic stand to separate beads from supernatant. After the solution is clear (about 5 minutes), carefully remove and discard the supernatant. Be careful not to disturb the beads that contain the DNA targets.
- Add 200 μ l of 80% freshly prepared ethanol to the tube/PCR plate while in the magnetic stand. Incubate at room temperature for 30 seconds, and then carefully remove and discard the supernatant.
- Repeat Step 5 once.
- Air dry beads for 5 minutes while the tube/PCR plate is on the magnetic stand with the lid open.
Caution: Do not overdry the beads. This may result in lower recovery of DNA target.
- Remove the tube/plate from the magnet. Elute DNA target by adding 40 μ l 0.1X TE to the beads. Mix well on a vortex mixer or by pipetting up and down, and incubate for 2 minutes at room temperature. Put the tube/PCR plate in the magnetic stand until the solution is clear.
- Without disturbing the bead pellet, carefully transfer 32 μ l of the supernatant to a fresh, sterile microfuge tube.
- Proceed to library construction using end-user supplied reagents.