AMPINEXT™ Post-Bisulfite DNA Library Preparation Kit (Illumina)

A complete set of optimized reagents to prepare a DNA library, after successful bisulfite conversion, for various Illumina platform-based bisulfite sequencing (bisulfite-seq) assays.

The AMPINEXT™ Post-Bisulfite DNA Library Preparation Kit is a complete set of optimized reagents to prepare a DNA library -- after successful bisulfite conversion -- for various Illumina platform-based bisulfite sequencing (bisulfite-seq) assays, such as whole genome bisulfite sequencing (WGBS), oxidative bisulfite sequencing (oxBs-seq), reduced representation bisulfite sequencing (RRBS), and other bisulfite-based next generation sequencing applications. The optimized protocol and components of the kit allow both non-barcoded (singleplexed) and barcoded (multiplexed) DNA libraries to be quickly constructed using sub-nanogram input concentrations of DNA since the DNA is first bisulfite-converted and then used for library preparation.

Ordering Information

Order Online »

ENZ-GEN512-0012	12Reactions

Manuals, SDS & CofA

View Online »

- Allows bisulfite-converted DNA to be used directly for ligation.
- Fast 5-hour procedure, from input starting material to library amplification.
- Gel-free size selection/purification
- High sensitivty and efficiency -- direct ligation of adapter to bisulfite-converted DNA fragments.
- Comprehensive set of components to accommodate each step of DNA library preparation.
- Ultra HiFi amplification enables achievement of reproducibly high yields of DNA libraries.

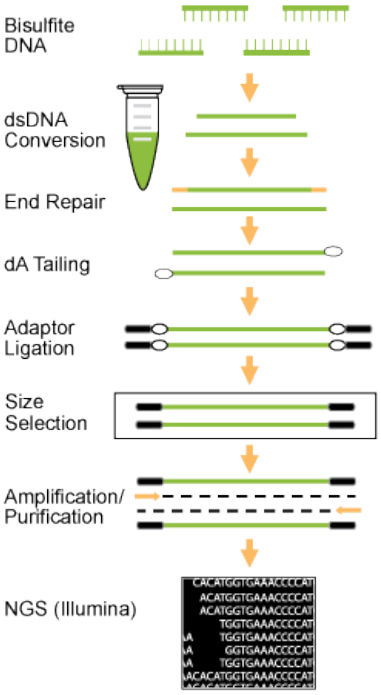


Figure 1. Schematic Procedure for using the AMPINEXT Post-Bisulfite DNA Library Preparation Kit (Illumina) Schematic

Handling & Storage

Use/Stability

Upon receipt, store the following components at -20°C immediately: 5X Conversion Buffer, Conversion Enzyme Mix, Conversion Primer, 10X End Repair Buffer, End Repair Enzyme Mix,10X dA-Tailing Buffer, Klenow Fragment (3'-5' exo-), 2X Ligation Buffer, T4 DNA Ligase, Adaptors, 2X HiFi PCR Master Mix, Primer U, Primer I, and Elution Buffer. Store the following components at 4°C: MQ Binding Beads. Store all other components at room temperature. □

Long Term Storage

+4°C

Shipping

Blue Ice

Regulatory Status

RUO - Research Use Only

Product Details

Application Notes

A complete set of optimized reagents to prepare a DNA library, after successful bisulfite conversion, for various Illumina platform-based bisulfite sequencing (bisulfite-seq) assays.

Assay Time

5 hours

Contents

5X Conversion Buffer
Conversion Enzyme Mix
Conversion Primer
10X End Repair Buffer
End Repair Enzyme Mix
10X dA-Tailing Buffer
Klenow Fragment (3'-5' exo$^-$)
2X Ligation Buffer
T4 DNA Ligase
Adaptors (50 µM)
MQ Binding Beads
2X HiFi PCR Master Mix
Primer U (10 µM)
Primer I (10 µM)
Elution Buffer

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