

NEXTflex™ PCR-Free Modules

产品特点:

- Flexible options – the NEXTflex™ PCR-Free Modules are available in aliquots containing any number of reactions you need
- Convenient – Reactions are provided in master mix format to reduce steps during DNA sample prep workflows
- Eliminates amplification bias and poor sequence representation
- Improves read mapping
- Reduces duplicate sequences
- Better de novo assembly
- Enhanced Adapter Ligation Technology offers a larger number of unique sequencing reads
- Automation-friendly workflow is compatible with liquid handlers
- Functionally validated with Illumina sequencing platforms

产品详情:

The NEXTflex™ PCR-Free Modules offer additional flexibility to next generation sequencing library preparation. They are optimized for NGS DNA library preparation without amplification. Amplifying AT or GC rich genomic regions often leads to sequence biased nucleotide compositions and poses a serious challenge during analysis. Using specially designed master-mixed enzymes, the NEXTflex™ PCR-Free Modules completely eliminate the need for amplification, enabling better read mapping and a reduction in duplicate sequences leading to reduced sequence cost and bias for more representative base identities and better de novo assembly. All of these modules are compatible with the Illumina Genome Analyzer IIX, HiSeq and MiSeq sequencing platforms. These modules are available in any quantity greater than 100 reactions.

NEXTflex™ PCR-Free End Repair Module

The NEXTflex™ PCR-Free End-Repair Module has been designed with enzymes and buffers to efficiently repair fragmented DNA with overhangs to blunt ended DNA. The NEXTflex™ PCR-Free End Repair Module is supplied as a master mix to maximize efficiency and convenience in DNA sample preparation workflows. The module is the first step in the NEXTflex™ PCR-Free Sequencing Kit.

NEXTflex™ PCR-Free Adenylation Module

The NEXTflex™ PCR-Free Adenylation Module has been designed with enzymes and buffers to efficiently incorporate an "A" on the 3' end of blunt DNA fragments. The module is the second step in the NEXTflex™ PCR-Free Sequencing Kit.

NEXTflex™ PCR-Free Ligation Module

The NEXTflex™ PCR-Free Ligation Module has been designed with enzymes and buffers to efficiently ligate DNA adapters to adenylated DNA fragments. Using Bioo Scientific's "Enhanced Ligation Technology", adapters are bound to more DNA fragments leading to increased sequencing diversity and reads. The module is the fourth step in the NEXTflex™ PCR-Free Sequencing Kit.

Modules are also available for DNA library preparation (with PCR) and ChIP-Seq library preparation.

For larger volume requirements, customization and bulk packaging is available. Please info@sbsbio.com for further information.

Catalog#	Product Name	Quantity
5142-05	NEXTflex™ PCR-Free End Repair Mix	100 rxns
5142-05c	NEXTflex™ PCR-Free End Repair Mix	1,000 rxns
5142-06	NEXTflex™ PCR-Free Adenylation Mix	100 rxns
5142-06c	NEXTflex™ PCR-Free Adenylation Mix	1,000 rxns
5142-07	NEXTflex™ PCR-Free Ligation Mix	100 rxns
5142-07c	NEXTflex™ PCR-Free Ligation Mix	1,000 rxns