

More Sequencing Options For Linear Library Users

& Stability

Linear libraries were lossless converted into single-stranded circular DNA librariesin batches

Efficiency & Compatibility

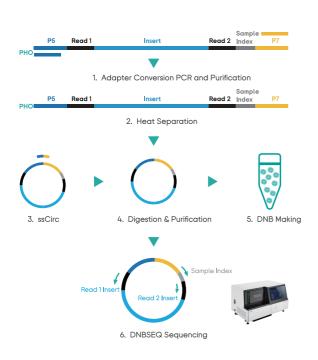
Automated preparation of DNA nanoballs, compatible with DNBSEQ™ platform sequencing

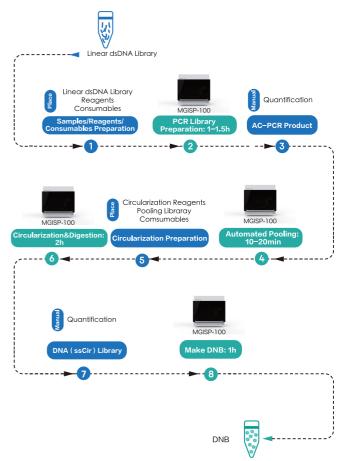
Principle of Library Conversion

The library products constructed by third-party library preparation kits are generally linear double-stranded DNA, and the library conversion kit (MGIEasy Universal Library Conversion Kit (App-A), PN: 1000004155) is used to convert the linear dsDNA library into a single-stranded circular DNA library compatible with the MGI sequencing platform.

Automated Operation Process

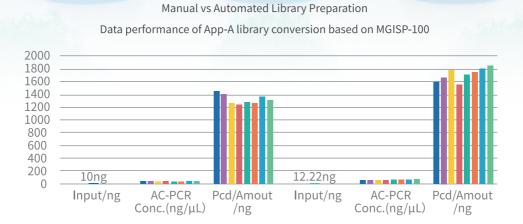
App-a+Make DNB was run on MGISP-100 for automated library conversion, which mainly went through four steps: PCR library preparation - automated pooling - circularization & digestion - make DNB. A maximum of 16 samples could be run at one time. The whole process was highly automated, and the operation only took about 4.5-5 hours.





Data Performance

The MGISP-100 DNA Sequencing Library Preparation System performed the same as or better than manual in terms of AC-PCR products and the total amount of libraries produced.



Manual

Ordering Information

Instruments

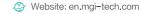
Item NO.	Product Name	Specification
900-000070-00	DNA Sequencing Library Preparation System MGISP-100RS	EA, CE RUO
900-000027-00	DNA Sequencing Library Preparation System MGISP-100	EA, CE IVD

■S1 ■S2 ■S3 ■S4 ■S5 ■S6 ■S7 ■S8

Reagents

Product No.	Product Name	Product Introduction	Sequencing Platform	
1000004155	MGIEasy Universal Library Conversion Kit (App-A)	Used to convert linear double-stranded DNA into single-stranded circular DNA		
1000020835	High-Throughput Single-End Sequencing Primer Kit (App-A)	Used to replace the sequencing primers under SE single-barcode sequencing conditions for Truseq library	DNBSEQ-G50/	
1000020832	High-Throughput Pair-End Sequencing Primer Kit (App-A)	Used to replace the sequencing primers under PE single-barcode sequencing conditions for Truseq library	DNBSEQ-G400/ DNBSEQ-T7	
1000014047	High-Throughput Barcode Primer 3 Reagent Kit (App-A)	It contains only one barcode primer, which needs to be used together with 1000020832 to realize PE dual barcode sequencing of Truseq library		
1000027472	High-Throughput Sequencing Primer Kit (App-C)	Contains Truseq and Nextera library adapters, which can achieve any or both of the above library pooling sequencing	DNBSEQ-G50/ DNBSEQ-G400	
1000028550	High-Throughput Sequencing Primer Kit (App-D)	Contains Truseq/Nextera and MGI library adapters, which can achieve any one, two or three library pooling sequencing	DNBSEQ-T7	

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Automation







