

ABL

Advanced
Biological
Laboratories

DeepChek NGS Library Preparation Kit

**Efficient & Cost-effective Library
Construction**



Providing Lab Efficiency for Optimized
Patient Monitoring

Research Use Only - Proprietary, ABL S.A.

Proprietary, ABL S.A. - May2021

Please contact the ABL support team to request more information & registration status of the above mentioned products for your respective territories.

1/4

contact@ablsa.com
<http://www.ablsa.com>



THE SOLUTION

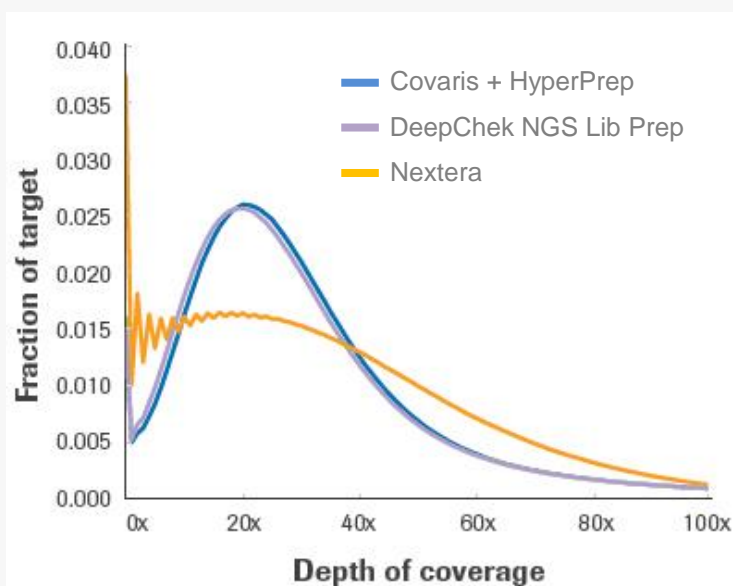


The DeepChek NGS Library Preparation Kit provides a streamlined workflow, in which DNA fragmentation and library construction is performed in a single tube. This integrated solution combines library construction efficiency and library quality with the speed and convenience of tagmentation-based library preparation workflows.

Benefits

- DNA fragmentation and library prep in 4 hours
- Very flexible with respect to DNA input
- Reduced bias and more uniform sequence coverage
- Flexibility with respect to fragment size, adapter design and library amplification
- Including Adapters and Indexes

Coverage uniformity



	DeepChek NGS Lib Prep	Nextera XT
Total time	4 hours (library amplification optional for lower input)	4 hours
Applications	Small genomes, amplicons, plasmids, human exome, microbial whole genome sequencing	Small genomes, amplicons, plasmids
Amplicons sizes	from 150 to 800 bp by varying fragmentation time	300 bp
Input	Wide range 1 ng – 1 µg	1 ng
Index	Single tube and included in the kit	2 tubes (i5 and i7) and not included

The DeepChek NGS Library Preparation Kits are intended to be used combined with ABL's DeepChek SingleRound Assays

Research Use Only - Proprietary, ABL S.A.

DeepChek NGS Library Preparation Kit

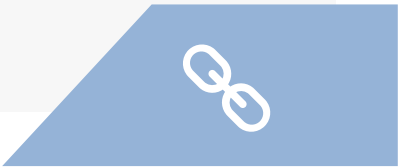


CONTENT



- Fragmentation enzyme + buffer
- End Repair & A-Tailing enzyme + buffer
- Ligation buffer, DNA Ligase
- High Fidelity Master Mix
- Library Amplification Primer Mix
- Indexes in single tube

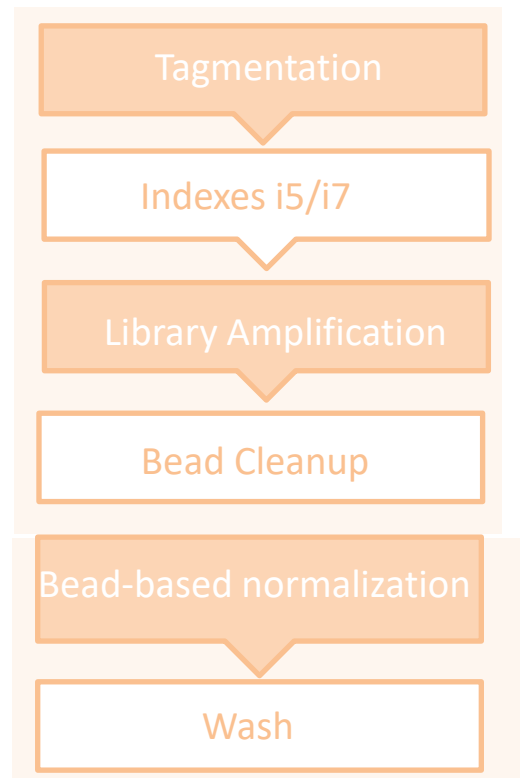
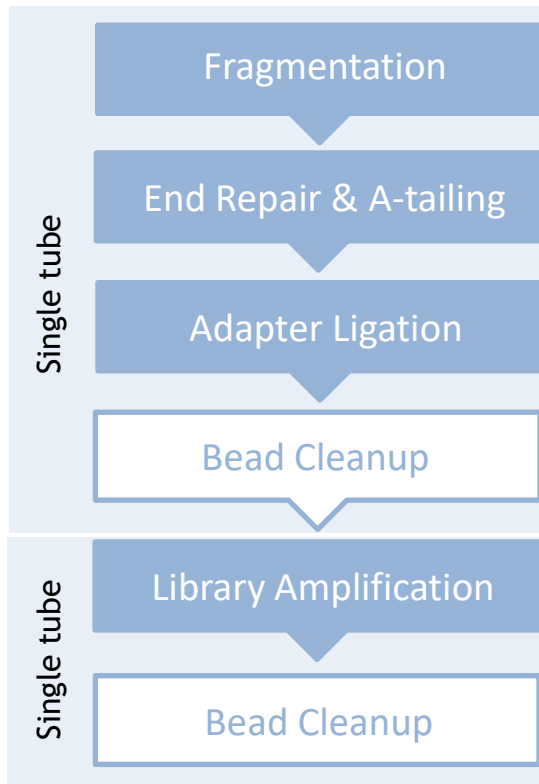
WORKFLOW



DeepChek NGS Library Preparation Kit Total time: ~ 4 hours

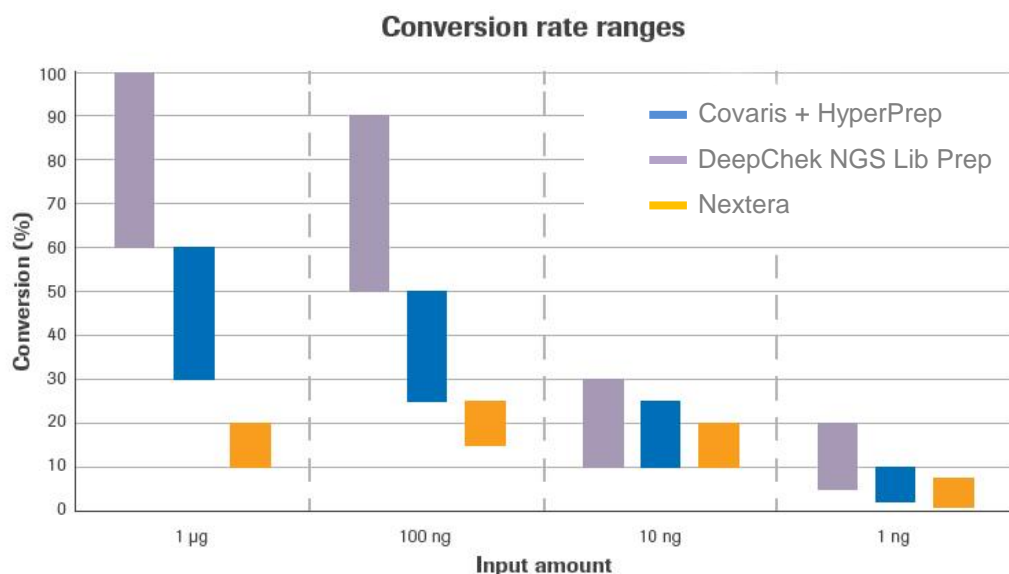
Nextera XT Total time: ~ 4 hours

The DeepChek NGS Library Preparation Kit includes low-bias enzymatic fragmentation, eliminating the need for mechanical DNA shearing methods that require expensive instrumentation and are difficult to automate.



Research Use Only - Proprietary, ABL S.A.

Conversion rate ranges



- Routinely achieve conversion rates >80% from ≥100 ng input
- Low-input samples no longer require specialist library construction workflows or reagents

References & contact



DeepChek Assays combined with NGS Library Preparation Kit (RUO)

- + DeepChek®-HIV RT / PR Genotyping Assay (RUO) K-16-H2-RTPR24-DLP
- + DeepChek®-HIV INT Genotyping Assay (RUO) K-17-H2-INT-DLP
- + DeepChek®-HIV V3 Loop/Tropism Assay (RUO) K-17-H2-V3-DLP
- + DeepChek®-HCV NS5B / 5'UTR Genotyping Assay (RUO) K-16-NS5B5UTR-DLP
- + DeepChek®-HCV CORE Genotyping Assay (RUO) K-16-CORE-DLP
- + DeepChek®-HCV NS5A Drug Resistance Assay (RUO) K-16-NS5ADR-DLP
- + DeepChek®-HCV NS3 Drug Resistance Assay (RUO) K-16-NS3DR-DLP
- + DeepChek®-HCV NS5B Drug Resistance Assay (RUO) K-16-NS5BDR-DLP
- + DeepChek®-HBV RT Genotyping and DR Assay (RUO) K-17-B-RT-DLP
- Others contact@ablsa.com

CONTACT

- Advanced Biological Laboratories S.A.
- 17, rue des Jardiniers, L-1835 Luxembourg
- contact@ablsa.com
- <http://www.ablsa.com>
- TEL : (+352) 26 38 96 761
- FAX : (+352) 26 38 96 76 31

Research Use Only - Proprietary, ABL S.A.