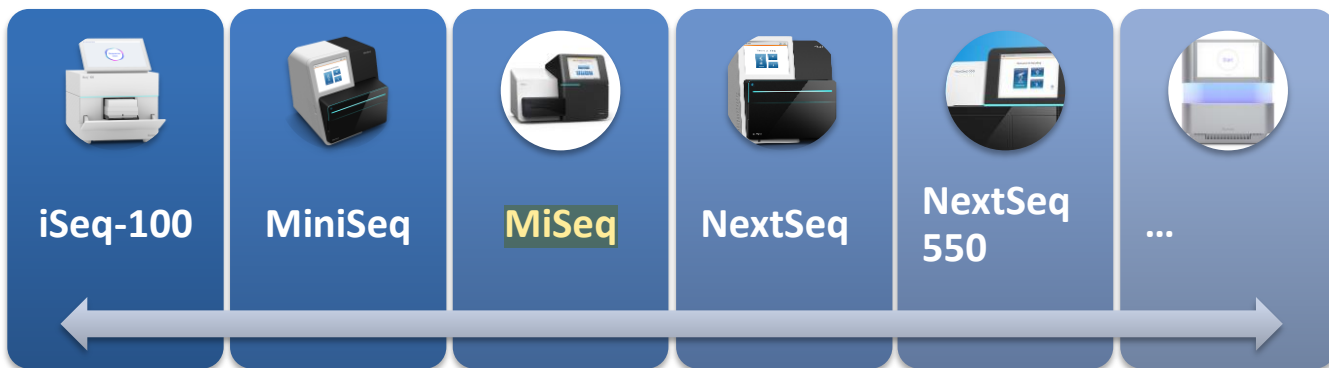
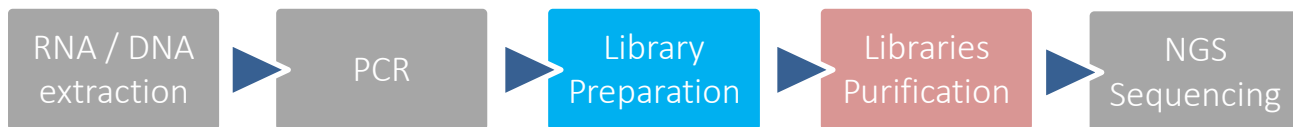




## DeepChek<sup>®</sup> Solution for Next Generation Sequencing (NGS)

Comprehensive Enzymatic-Based DNA Library Preparation Kits for a Large Variety of NGS Platforms



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# DeepChek® NGS LIBRARY PREPARATION V2

## Product Highlights

Type in DNA input	Small Genomes, PCR Amplicons, and Plasmids <b>One library prep kit for many applications</b>
Validated Samples	FFPE, plasma, whole blood, sputum, stools, solid & liquid culture
Species Category	Any Species, Fungal, Yeast, Drosophila, Zebrafish, Nematode, Plant, Mammalian, Bacteria, Rat, Mouse, Virus, Human
Assay Time	~5.5 hours from DNA extraction to normalized library. (Library prep time: ~90 minutes).
Hands-On Time	20 minutes
Mechanism of Action	Enzymatic fragmentation
Multiplexing	Up to 384 uniquely indexed samples may be pooled and sequenced together <u>Available formats: 24rx/run, 48rx/run, 96rx/run, 384rx/run</u>
Input Quantity	100 pg to 1 µg
Species Details	Compatible with any species
Target Insert Size	200 bp–1.5 kb
Method	<b>16s rRNA Sequencing, 18s rRNA Sequencing, Amplicon Sequencing, De Novo Sequencing, Whole-Genome Sequencing...</b>
Variant Class	Single Nucleotide Polymorphisms (SNPs), Structural Variants
Automation Capability	Liquid Handling Robots
System Compatibility	iSeq 100, MiniSeq, <b>MiSeq</b> , MiSeq Dx, NextSeq 550, ...
Nucleic Acid Type	<b>DNA</b>
Technology	<b>Sequencing</b>

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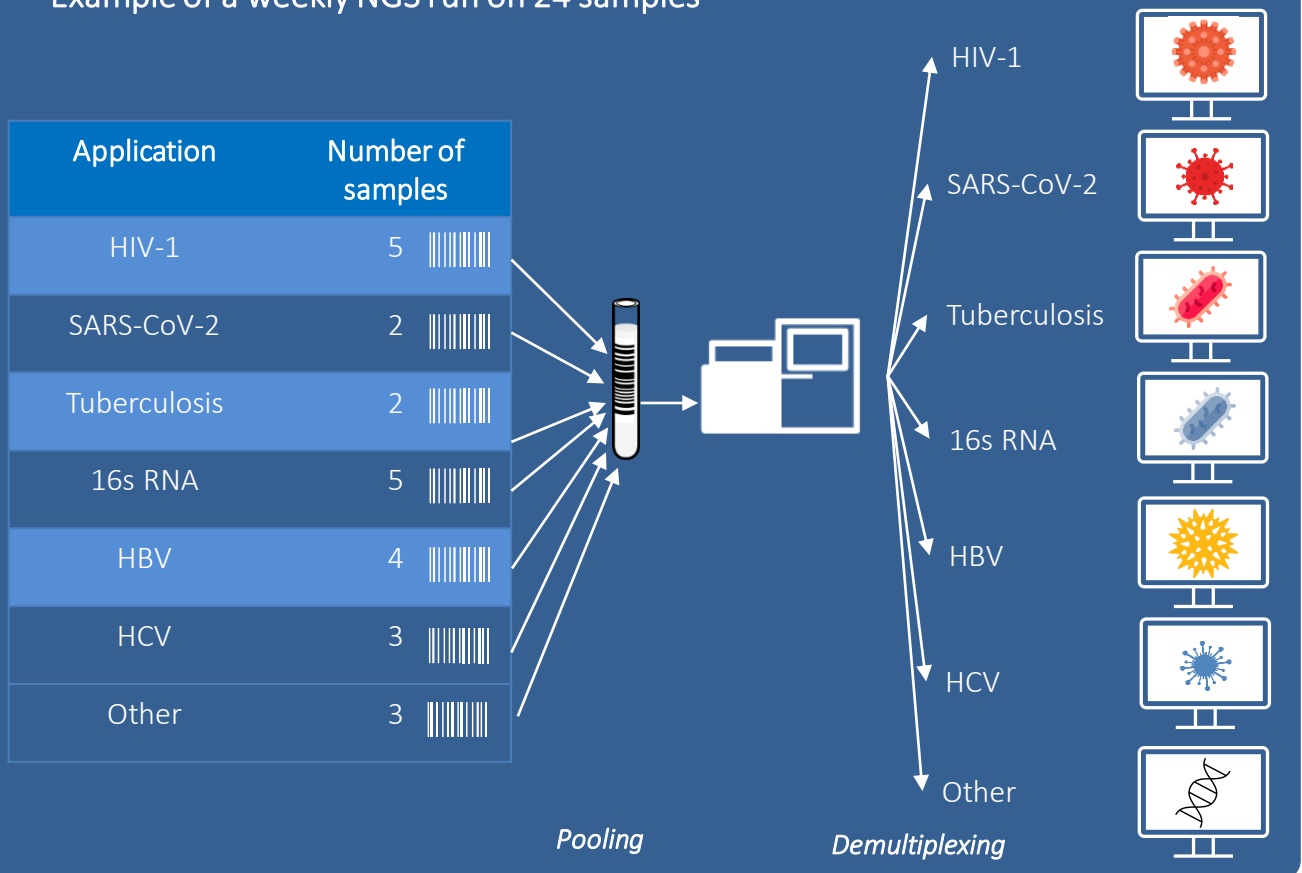
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# DeepChek® NGS LIBRARY PREPARATION V2

## Flexible Pooling & Multiplexing

- The DeepChek® assays & software can be used through NGS on a large variety of microbiology applications **simultaneously**, providing high efficiency
  - Optimize NGS sequencing costs
  - Optimize turnaround time
  - Bring NGS capacity to any lab settings
- Pick your applications from a wide catalog of applications and customize your NGS panel/run for your needs

### Example of a weekly NGS run on 24 samples

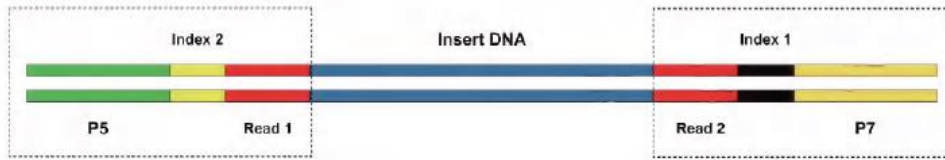


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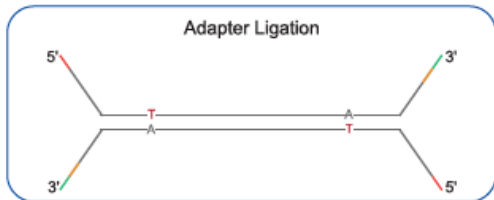
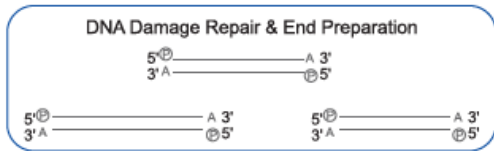
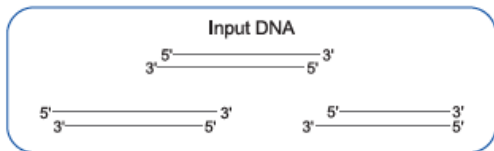
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# DeepChek® NGS LIBRARY PREPARATION V2

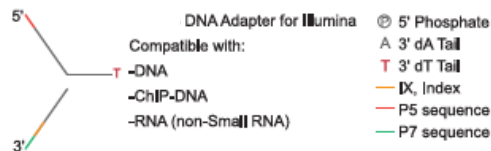
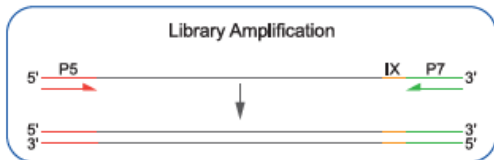
## Workflow



Construction of 2 –ended index library for Illumina



PCR-Free Library ends here



- DeepChek® NGS LIBRARY PREPARATION V2 is a DNA library preparation kit specifically developed for Illumina high-throughput sequencing platform.
- In this kit, DNA fragmentation, end repair and dA-tailing are combined into one step, and without purification, the products are directly subject to adapter connection, library enrichment and sorting.
- 100 pg to 1 µg of template DNA can be converted into a library specific for Illumina high-throughput sequencing platform.
- Without mechanical interruption to the genome, the library preparation process is simplified, and the operation time is shortened, so it is suitable for the preparation of PCR and PCR-free libraries.
- This kit can be perfectly compatible with DNA from different sources and with different inputs, and it is only needed to adjust the fragmentation time according to the target insert fragment size to obtain a library of required fragment size.
- All the reagents provided in the kit have undergone rigorous quality control and functional testing, to ensure the optimal stability and repeatability of library preparation.

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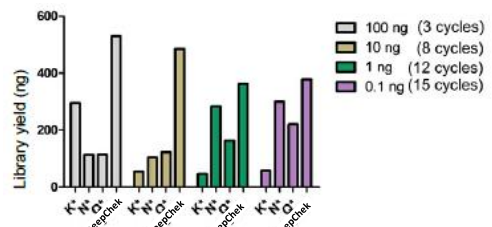
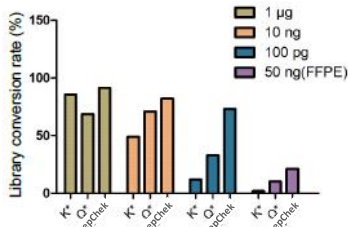
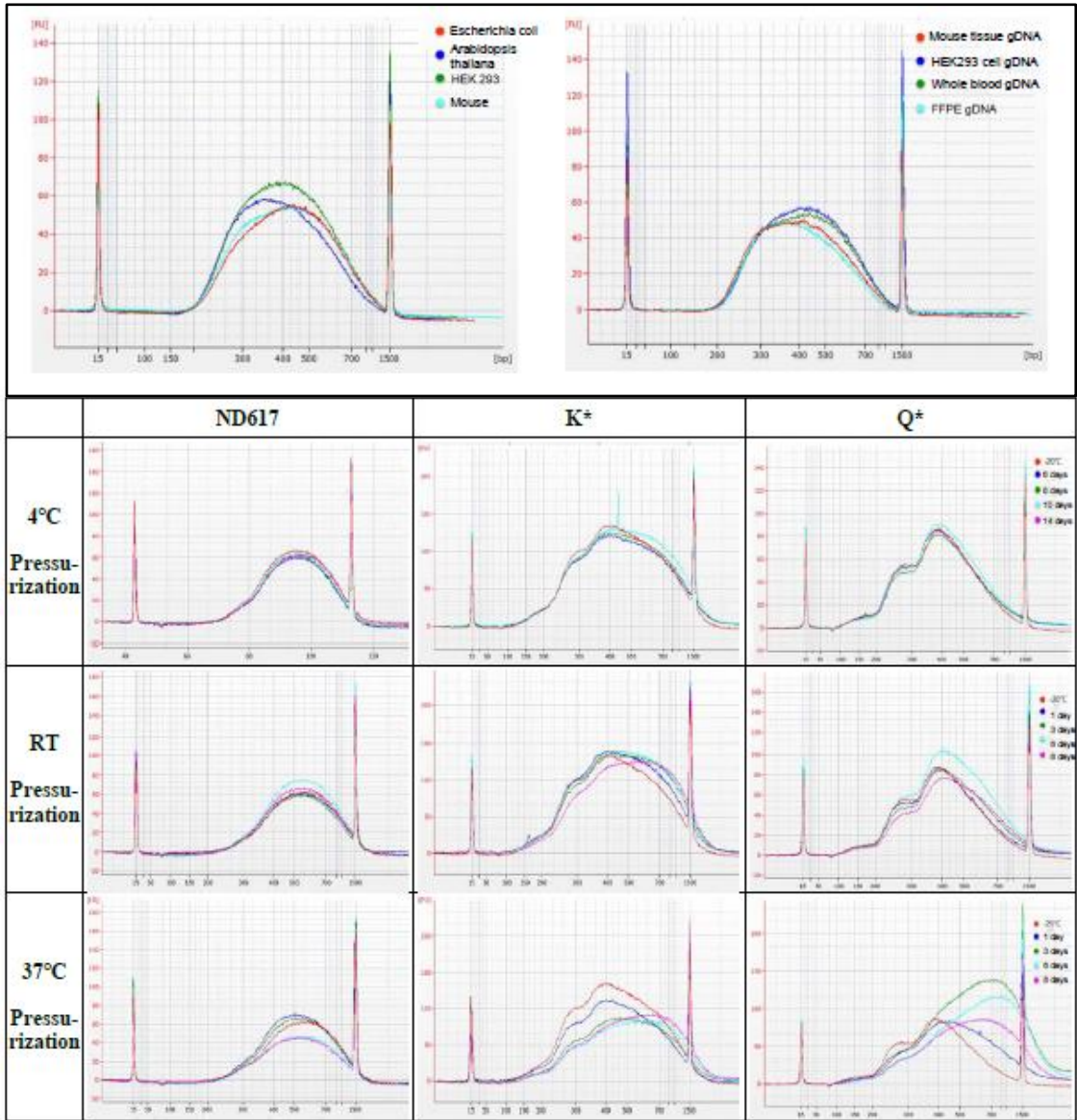




# DeepChek® NGS LIBRARY PREPARATION V2

## Performances

Library Size Distribution



Library conversion rate

Library yields under different initial inputs

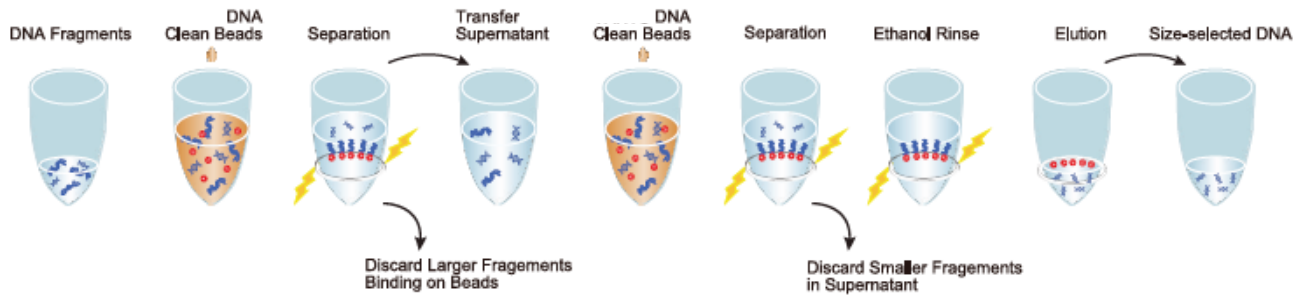
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# DeepChek® NGS Clean-up beads

## Seamless Alternative for AMPure XP Beads

- Seamless alternative for AMPure® XP Beads: same usage, similar yield, and identical size-distribution.
- Compatible with almost all current protocols for DNA library preparation.
- Cost-effective.



## References

### Library preparation for Illumina

DeepChek® NGS LIBRARY PREPARATION V2 (24 indexes)  
DeepChek® NGS LIBRARY PREPARATION V2 (48 indexes)  
DeepChek® NGS LIBRARY PREPARATION V2 (96 indexes)  
DeepChek® NGS LIBRARY PREPARATION V2 (384 indexes)

116B24+124B24  
116B48+124B48  
116B96+124B96  
116B384+124B384

### Library preparation for Ion Torrent

DeepChek® NGS LIBRARY PREPARATION IT

Available soon

### Library preparation for MGI

DeepChek® NGS LIBRARY PREPARATION MGI

Available soon

### Library preparation for Nanopore

DeepChek® NGS LIBRARY PREPARATION NP

Available soon

### DNA Clean-up

DeepChek® NGS Clean-up beads (60mL)  
DeepChek® 96x0.2 mL wells plate (25 units)

N411-02  
B70501-01

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

7/7

[contact@ablsa.com](mailto:contact@ablsa.com)  
<http://www.ablsa.com>

# CERTIFICATE OF ANALYSIS

Product Name/Description	DeepChek® Adapters (24) V2								
Cat. #	124B24								
Lot #	124B24240102A								
Serial number #	from	124B24240102A_01	to 124B24240102A_38						
Storage Conditions	-20 DEGREES CELSIUS (°C)								
Shipping conditions	DRY ICE								
Expiration Date (YYYY-MM)	2025-07								
Manufacturing Date (YYYY-MM-DD)	2024-01-11								
Package Size	24 TESTS								
Country of Origin	FRANCE								
Manufacturer	ABL SA								
Dangerous goods classification	NA								
Luminosity	NO NEED TO BE PROTECTED FROM LIGHT								
Humidity	25-80%								
Primary packing	POLYPROPYLENE MICROTUBES 0.5mL and 1.5mL								
Package Contents	1. Adapters (24)								
Product Documentation	DOCUMENTS AVAILABLE UPON REQUEST								
Quality Control	<b>PCR and sequencing</b>								
<p>Consistent libraries were confirmed by PCR and sequencing using a control DNA as a template. No specific amplification was observed without template.</p>									
It is certified that this product meets above specifications.									
Qualified and authorized product inspector									
<table border="1" style="margin: auto; border-collapse: collapse;"> <thead> <tr> <th style="width: 60%;">Name // Title</th> <th style="width: 40%;">Electronic Signature</th> </tr> </thead> <tbody> <tr> <td style="text-align: center; padding: 5px;">Charlène Orliac</td> <td></td> </tr> <tr> <td style="text-align: center; padding: 5px;">Laboratory technician</td> <td></td> </tr> </tbody> </table>				Name // Title	Electronic Signature	Charlène Orliac		Laboratory technician	
Name // Title	Electronic Signature								
Charlène Orliac									
Laboratory technician									





EURO-QUALITY SYSTEM France  
14 Avenue de l'Europe  
77144 MONTEVRAIN

CERTIFICATION SOCIETY  
**CERTIFICATE**  
**ISO 13485 : 2016**

N° Certificate : 221013/1551F

We hereby declare that, on the basis of the dossier of certification, and further to the audit undergone successfully, the company :

**Advanced Biological Laboratories (ABL SA) - Luxembourg**

**Site : ABL Diagnostics S.A**

**33 Chemin de l'Argile  
13010 Marseille, France**

has been certified on

**7<sup>th</sup> October 2022**

In accordance with the ISO 13485 standard for a period of 3 years in the following fields

- **Design, development, production, distribution, training and support of in-vitro diagnostic medical devices.**
- **Distribution of medical devices.**

and has the right to use this certificate in the fields described before

General Management  
Henry CHARLIER

General Management  
Christian STEVENART

Paris, 19<sup>th</sup> October 2022

AN IMPROPER USE OF THIS CERTIFICATE BY THE COMPANY LEADS AUTOMATICALLY TO ITS REVOCATION