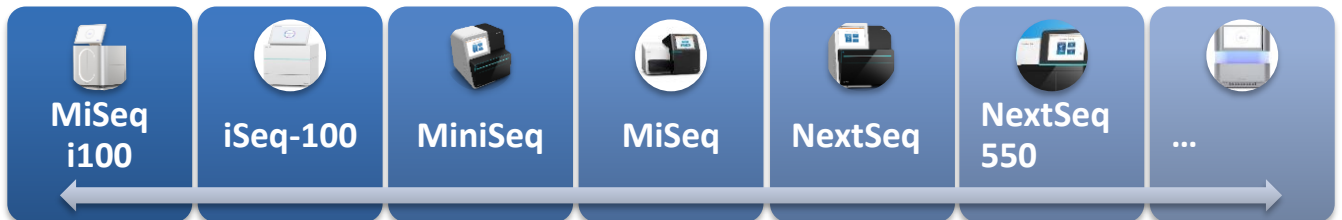


DEEPCHEK® NGS LIBRARY PREPARATION V4

*FROM EXTRACTED NUCLEIC ACIDS TO LIBRARY
IN RECORD TIME (RUO)*

Less than 2 hours to library—without compromising analytical performance.



Why DeepChek® NGS Library Preparation V4?

Ultra-fast workflow

- from extracted nucleic acids to ready-to-sequence libraries in < 2 hours

Optimized for Illumina platforms

- MiSeq i-100, MiSeq, NextSeq, iSeq-100...

Robust library preparation performance

- for genotyping research, with high analytical reproducibility

Streamlined protocol

- with reduced hands-on time

Ready-to-use reagents

- for high-throughput research laboratories/workflows (RUO)

Seamless integration

- with DeepChek® NGS analysis solutions for research workflows

Research workflow: extracted nucleic acids to ready-to-sequence libraries.



Input nucleic acids

- Compatible with standard extraction methods



Library preparation

- End-to-end optimized chemistry
- Minimal handling steps



Library ready for sequencing

- Direct loading on Illumina platforms
- Consistent library quality



Total time: < 2 hours



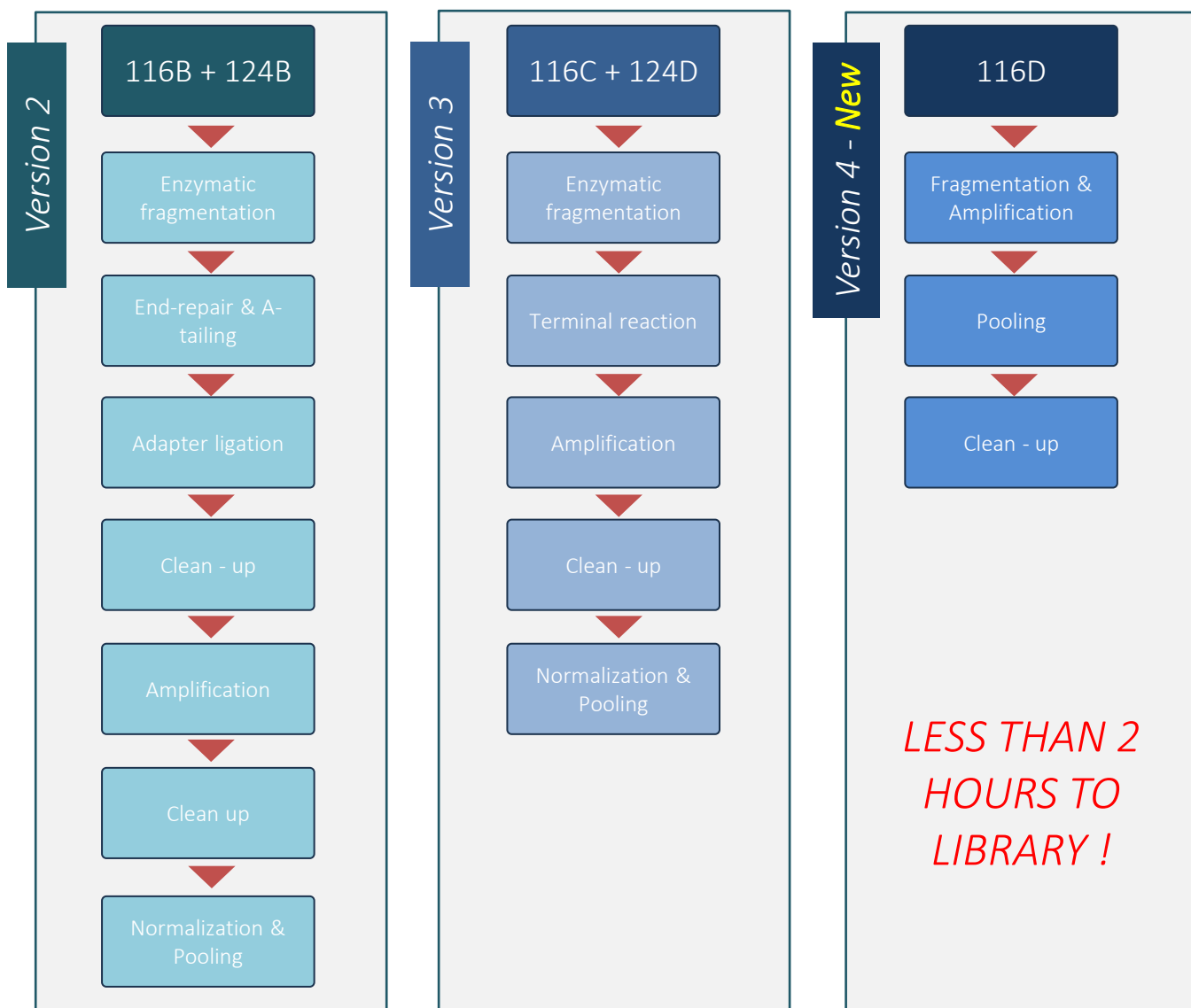
DeepChek® Library Preparation Portfolio

Feature	DeepChek® Library Prep V2	DeepChek® Library Prep V3	DeepChek® Library Prep V4	Illumina Nextera XT	Illumina DNA Prep
Reference	116Bx + 124Bx	116Cx + 124Dx	116Dx	FC-131-10	20060060
Illumina compatibility	Yes	Yes	Yes (Fully optimized)	Yes	Yes
Total preparation time	~6.5 h	~ 5 -6 h	~2 h	~5-6 h	~3-4h
Hands-on time	Moderate	Reduced	Minimal	Moderate	Reduced
Input DNA	100 pg to 1µg	100 pg to 500ng	1 – 40 ng	1ng	1–500 ng
Pre-plated reagents	No	No	Yes	No	No
One-step tagmentation/ amplification	No	No	Yes	No	No
Normalization required	Yes	Yes (bead-based)	No	Yes (bead-based)	Yes (bead-based)
Early sample pooling	No	No	Yes	No	No
Indexing	Dual indexing	Unique dual indexes (UDI adapters)	Dual indexing	Dual indexing	Dual indexing
Workflow complexity	Standard	Simplified	Highly streamlined	Standard	Simplified
Throughput	Low- to mid-throughput research	Mid- to high-throughput research	Mid- to high-throughput research	Low- to mid-throughput research	Mid- to high-throughput research
Automation ready	Limited	Partial	Yes	NA	NA

All products referenced are for research use only; comparison is for research workflows.



Workflows comparison



Contacts & references

DeepChek® NGS Library Preparation & Adapters V4.x (24 tests)..... 116D24
 DeepChek® NGS Library Preparation & Adapters V4.x (96 tests)..... 116D96

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