

KAPA EvoPrep Kits Guide to Success

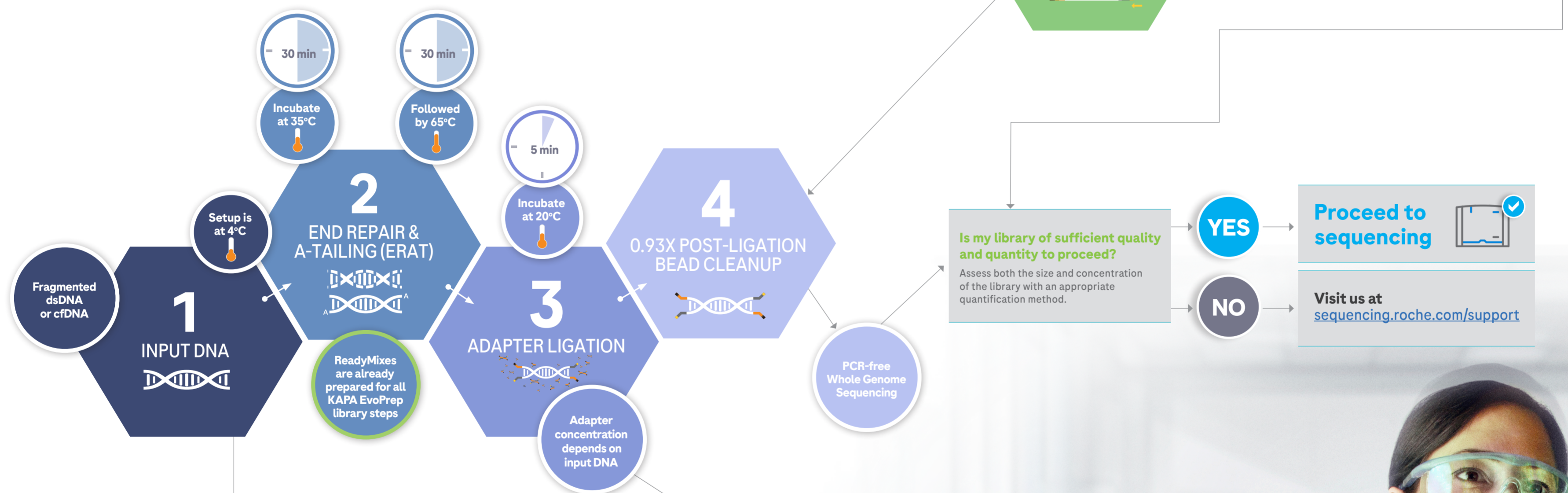


Simplify high-performance library prep from mechanically fragmented DNA.

Optimize amplification cycles for your downstream application

Input DNA	Number of cycles to generate ≥ 4 nM* of library (if using KAPA UDI Adapters)	Number of cycles to generate ≥ 4 nM* of library (if using truncated KAPA Universal Adapter & KAPA UDI Primer Mixes)
0.1 ng	10 - 12	11 - 13
1 ng	7 - 9	8 - 10
10 ng	3 - 5	5 - 7
50 - 500 ng	0 (PCR free)	3

*The number of cycles needed depends on the specific adapter and amplification primer design, as well as input type and quality



How much DNA do I need?

Application	Sample type	Input
WGS	High quality gDNA	0.1 - 500 ng
	Low quality FFPET-derived DNA	≥ 50 ng*
WGS (PCR-free)	High quality gDNA	≥ 50 ng (no-SS)** 500 ng (with SS)**
	High quality gDNA	100 ng
Targeted Sequencing	High quality gDNA	100 ng
	Cell-free/circulating tumor DNA (cfDNA/ctDNA)	10 ng - 50 ng

* Reach out to Technical Support for possible workflow modifications when using this sample type.
 ** SS = double-sided size selection; a requirement when performing WGS on patterned flow cells but may result in sample losses of 60 - 95%, irrespective of whether a bead- or gel-based technique is used. For PCR-free workflows, due to the inherent sample losses, performing double-sided size selection with inputs <500 ng (into library prep) is not recommended.

How much adapter do I need?
 Adapter concentration affects ligation efficiency, as well as adapter and adapter-dimer carry-over during the post-ligation cleanup.

Input DNA	Adapter stock concentration*
<10 ng	3 μ M
10 ng - 500 ng	15 μ M

*Adapter stock concentration remains unchanged, regardless of whether KAPA UDI Adapter (full length) or KAPA Universal Adapter (truncated) are used.

Is my library of sufficient quality and quantity to proceed?
 Assess both the size and concentration of the library with an appropriate quantification method.

YES → Proceed to sequencing

NO → Visit us at sequencing.roche.com/support

Proceed to target enrichment or Whole Genome Sequencing
 Visit us at sequencing.roche.com/support

Only if using KAPA Universal Adapter & KAPA UDI Primer Mixes





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