KAPABIOSYSTEMS
evolving better science

ATCGGCA
TTTGGCC
CGCATCG
GACTACG
NGS | qPCR | PCR

KAPA PURE BEADS

Attract what matters.

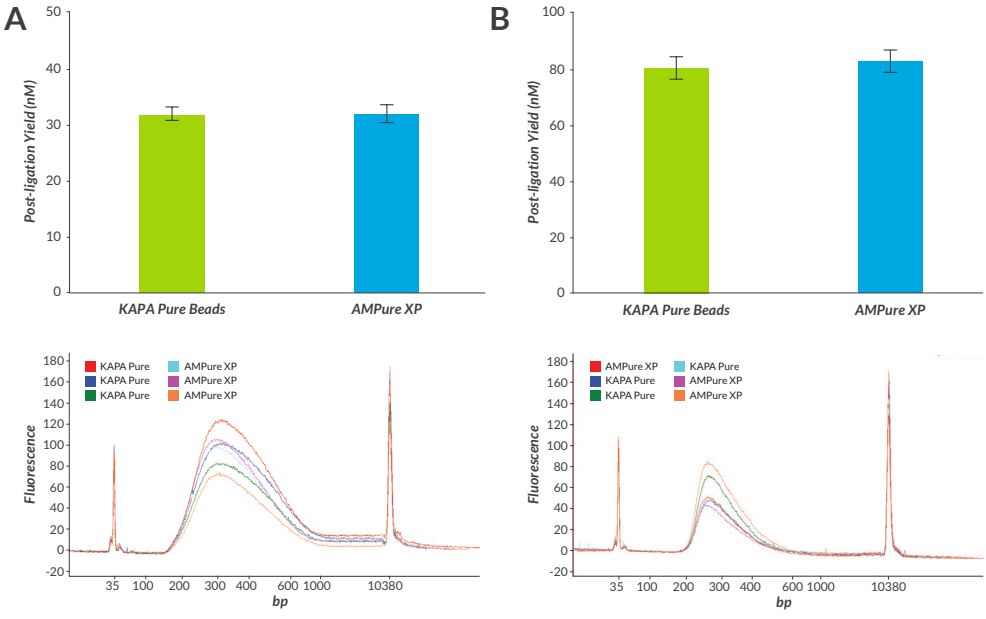
KAPA Pure Beads offer a tunable and highly consistent solution for reaction purification and size selection in DNA and RNA next-generation sequencing library construction workflows.

Benefits include:

- high recovery of single- and double-stranded DNA (1 ng – 5 µg) in a single cleanup
- fast and efficient cleanups to remove unwanted reaction components
- easy substitution into bead-based workflows
- enables adjustable size selection
- automation friendly

Seamless Integration into NGS Workflows

- Compatible with all KAPA DNA and RNA library preparation protocols
- Achieve equivalent yields and size distribution in comparison to Agencourt® AMPure® XP
- Readily incorporated into existing automation applications



KAPA Pure Beads provides equivalent performance to Agencourt® AMPure® XP in both DNA and RNA workflows.

A) Libraries were prepared with the KAPA HyperPlus Kit, from 100 ng high-quality *E. coli* genomic DNA, fragmented at 37˚C for 30 min. to target a final library size of 300 bp.

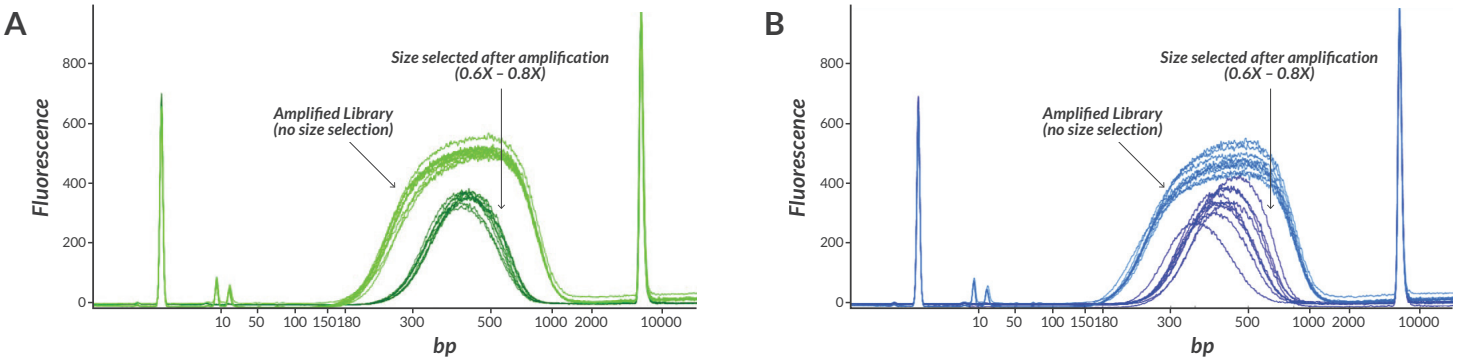
B) Libraries were prepared with the KAPA Stranded RNA-Seq Kit with RiboErase, from 100 ng of Universal Human Reference (UHR) RNA according to standard protocol.

Yields were measured with the KAPA Library Quantification Kit post ligation. Electropherograms for all libraries were generated with a Bioanalyzer 2100 High Sensitivity DNA Kit.

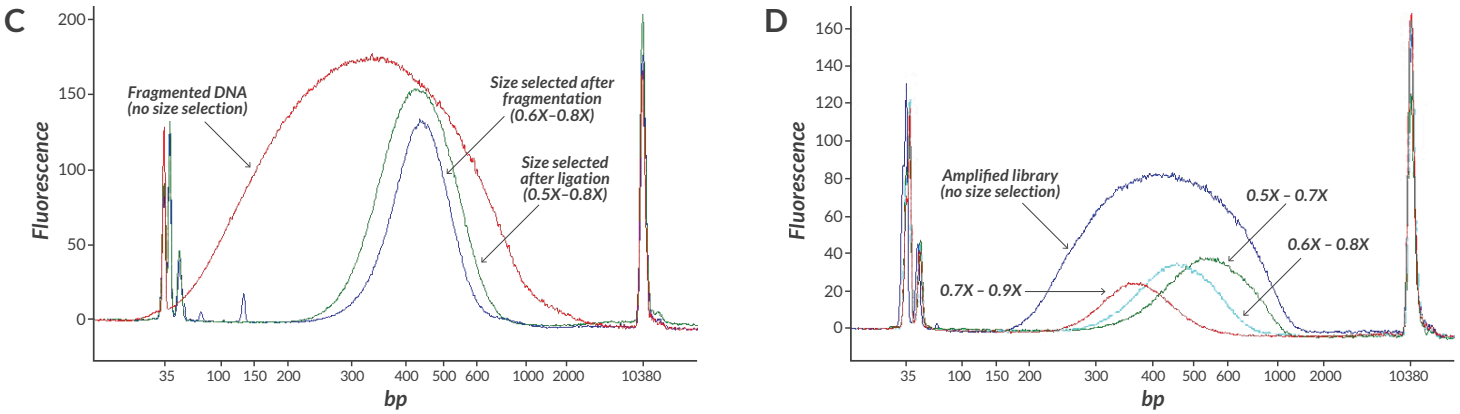
Unless otherwise stated in references, presented data on file

Tunable and Highly Reproducible Size Selection

- Obtain consistent library size distributions
- Flexible implementation at various points during library construction
- Adjustable size selection parameters to achieve desired library sizes



Highly reproducible final library size distribution is achieved with KAPA Pure Beads. All libraries were prepared with the KAPA Hyper Prep Kit, from 1 µg high-quality *E. coli* genomic DNA, fragmented with a Covaris® E220 Focused Ultrasonicator using conditions optimized for mode fragment lengths of 350 – 450 bp. Size selection (0.6X – 0.8X) using either KAPA Pure Beads **(A)** or Agencourt® AMPure® XP **(B)** was performed after library amplification (2 cycles). Electropherograms were generated with a PerkinElmer® LabChip GX DNA High Sensitivity Assay.



Adjustable size selection at various points in library preparation. (C) Equivalent final library size is achieved by performing size selection either immediately after genomic DNA fragmentation or after adapter-ligation. **(D)** Various final library sizes are achieved by timing size selection parameters after adapter-ligation. All libraries were prepared with the KAPA Hyper Prep Kit, from 100 ng high-quality human genomic DNA, fragmented with a Covaris E220 Focused Ultrasonicator using conditions optimized for mode fragment lengths of 350 – 450 bp. Electropherograms were generated with a Bioanalyzer 2100 High Sensitivity DNA Kit.

Ordering Information

Roche Cat. No.	Kapa Code	Description	Kit Size
07983271001	KK8000	KAPA Pure Beads	5 mL
07983280001	KK8001	KAPA Pure Beads	30 mL
07983298001	KK8002	KAPA Pure Beads	60 mL

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