

Apostle MiniEnrich® DNA Purification Beads



MiniEnrich® Carboxyl Beads
for Purification

Apostle MiniEnrich Purification Beads is designed for purification and clean-up of DNA fragments from the contaminants in NGS and molecular biology workflows. It can be used on samples after DNA isolation, fragmentation, PCR amplification, cloning, library preparation, etc. With proprietary Apostle MiniEnrich® technology, the kit is featured for its more efficient removal of contaminants and recovery of DNA fragments of interest than current market-leading products.

Features

- Novel magnetic nanoparticles structure and proprietary surface chemistry
- Compatible with current workflows
- Enhanced performance for specific removal of non-target fragments
- Significantly improved magnetic response for less pelleting time and less beads carry-over
- This product is an effective alternative to AMPure

Performance

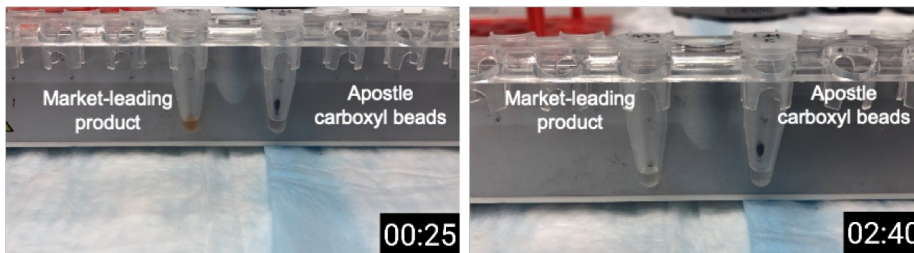


Exhibit 1. Apostle MiniEnrich® Carboxyl Beads offers **strong magnetic response**

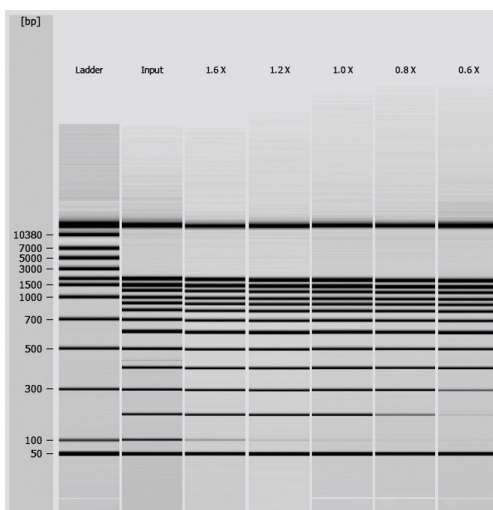


Exhibit 2. Effect of MiniEnrich® Purification Beads-to sample ratio on the purification of dsDNA fragments. Invitrogen 100 bp DNA ladder in the range of 100 to 2,000 bp diluted in TE (1:10) was purified with various MiniEnrich® Purification Beads-to sample ratios. Size distribution of retained dsDNA fragments was assessed with an Agilent Bioanalyzer 2100 DNA 12000 Kit. Cut-off size of dsDNA is inversely proportional to the beads-to-sample ratio: a greater ratio is required to remove smaller fragments.



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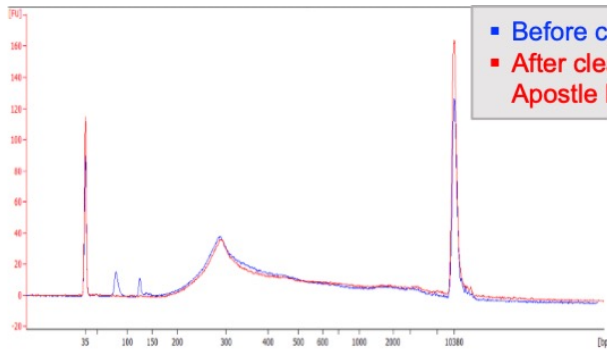
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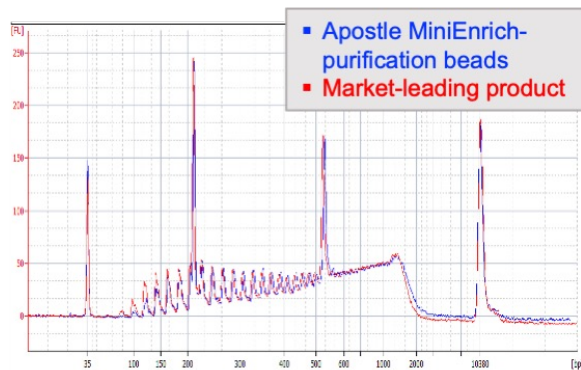


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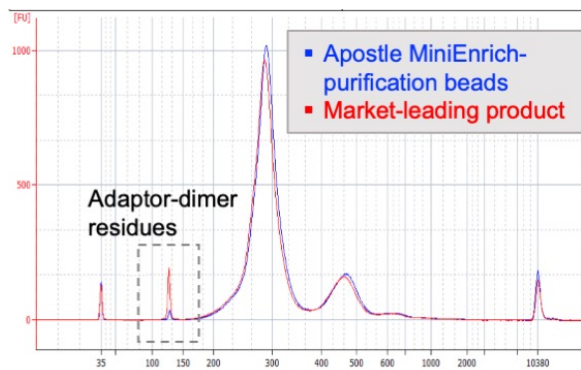
- Before clean-up
- After clean-up by Apostle MiniEnrich

Exhibit 3. Efficient removal of adaptor and adaptor-dimers for DNA library preparation. Fragmented gDNA was processed with NEBNext® Ultra II DNA Library Prep Kit for library preparation. The purification for adaptor-ligation step and final PCR product was performed using Apostle MiniEnrich® Purification Beads (red).



- Apostle MiniEnrich-purification beads
- Market-leading product

Exhibit 4. More efficient removal of fragments less than 150 bp for PCR purification. dsDNA step ladder (20-1000 bp) in a TE buffer was treated with Apostle MiniEnrich® Purification Beads (blue) or a magnetic beads-based market-leading product (red). Apostle MiniEnrich® Purification Beads provides more efficient removal of short fragments (<150 bp), while preserves long fragments (>150 bp) with high yield.



- Apostle MiniEnrich-purification beads
- Market-leading product

Exhibit 5. More efficient adaptor-dimer removal than competitors for cfDNA library preparation. cfDNA isolated from plasma was processed with NEBNext® UltraTM II DNA Library Prep Kit for library preparation. The purification for adaptor-ligation step and final PCR product was performed using Apostle MiniEnrich® Purification Beads (blue) or a magnetic beads-based market-leading product (red).

Order Information

Cat. No.	Product Name	Spec	Price (\$)
A190607-5	Apostle MiniEnrich® Carboxyl Beads for Purification (AMPure XP alternative)	5 mL	60.00
A190607-30	Apostle MiniEnrich® Carboxyl Beads for Purification (AMPure XP alternative)	30 mL	185.00



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Apostle MiniEnrich® DNA Size Selection Beads



MiniEnrich® Carboxyl Beads
for Size Selection

Apostle MiniEnrich® Size Selection Beads is designed for size selection of DNA fragments from a mixture of DNA with various sizes, which potentially benefits downstream assays like NGS and other molecular biology workflows. It can be used on samples before or after DNA fragmentation, ligation, or library amplification during NGS library preparation workflow. With proprietary Apostle MiniEnrich® technology, the kit is featured for customized cut-off size, efficient removal of non-target fragments and recovery of target DNA fragments.

Features

- Novel magnetic nanoparticles structure and proprietary surface chemistry
- Compatible with current workflows
- Enhanced performance for specific removal of non-target fragments
- Significantly improved magnetic response for less pelleting time and less beads carry-over
- This product is an effective alternative to SPRI beads

Performance

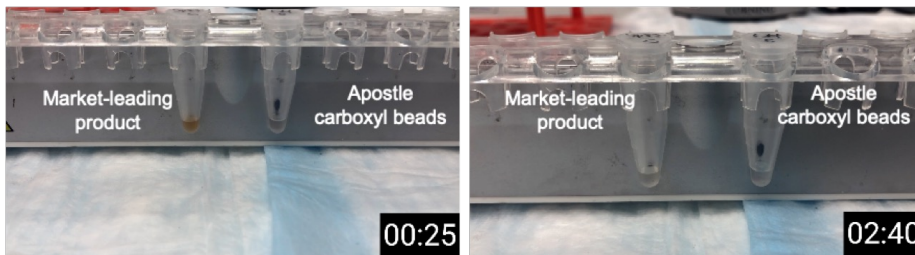


Exhibit 1. Apostle MiniEnrich® Carboxyl Beads offers **strong magnetic response**

Sample ID	Input DNA	Right-side removal		Recovery	
		Ratio	Beads Volume	Ratio	Beads Volume
A	20 µL	0.5×	10 µL	2.0×	40 µL
B	20 µL	0.6×	12 µL	1.9×	38 µL
C	20 µL	0.7×	14 µL	1.8×	36 µL
D	20 µL	0.8×	16 µL	1.7×	34 µL
E	20 µL	1.0×	20 µL	1.5×	30 µL
F	20 µL	1.4×	28 µL	1.1×	20 µL

Exhibit 2. Right-side removal: Lower ratio will remove larger fragments. Recovery step will recover all fragments that did not bind to the beads during right-side removal.



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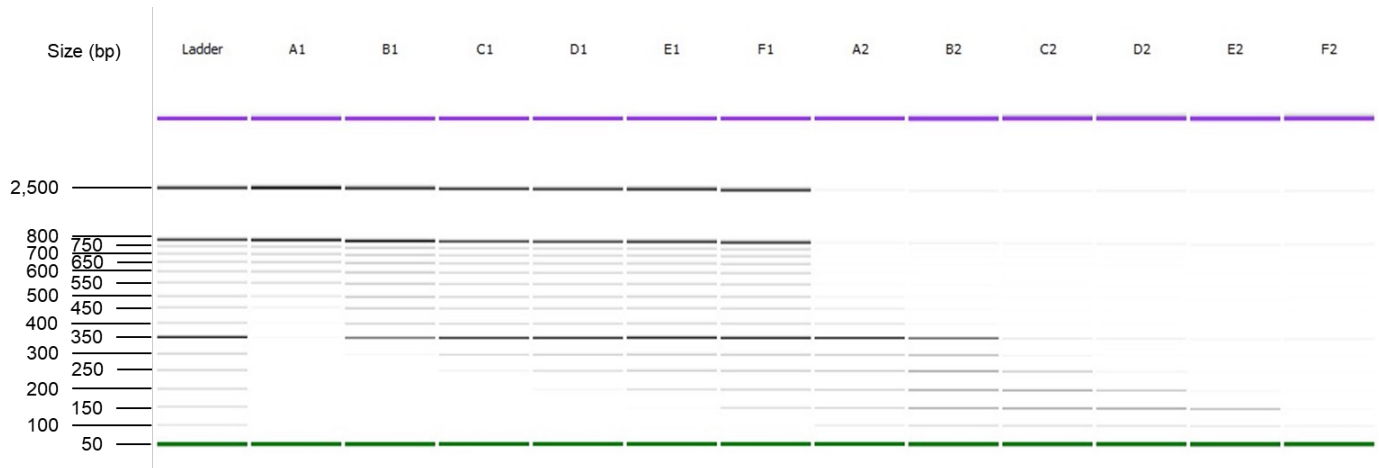


Exhibit 3. Bioanalyzer 2100 DNA 12000 date of right-side size selection.

- A1: DNA fragments removed by right-side removal step – 0.5x.
- B1: DNA fragments removed by right-side removal step – 0.6x.
- C1: DNA fragments removed by right-side removal step – 0.7x.
- D1: DNA fragments removed by right-side removal step – 0.8x.
- E1: DNA fragments removed by right-side removal step – 1.0x.
- F1: DNA fragments removed by right-side removal step – 1.4x.
- A2: DNA fragments recovered after right-side size selection – 0.5x/2.0x.
- B2: DNA fragments recovered after right-side size selection – 0.6x/1.9x.
- C2: DNA fragments recovered after right-side size selection – 0.7x/1.8x.
- D2: DNA fragments recovered after right-side size selection – 0.8x/1.7x.
- E2: DNA fragments recovered after right-side size selection – 1.0x/1.5x.
- F2: DNA fragments recovered after right-side size selection – 1.4x/1.1x.

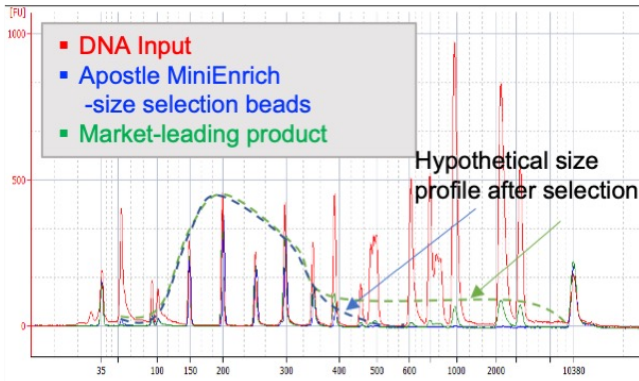


Exhibit 4. Less DNA residue results sharp peak with good resolution and high yield. dsDNA step ladder (50-3000 bp) in a TE buffer (red) was treated with Apostle MiniEnrich® Size Selection Beads for left-side size selection (blue) or a magnetic beads-based market-leading product (green). Comparing to market-leading product, Apostle MiniEnrich® Size Selection Beads offers less DNA residue of non-target fragments (>500 bp), while preserves fragments of interest (<500 bp) with high yield.

Order Information

Cat. No.	Product Name	Spec	Price (\$)
A190606-5	Apostle MiniEnrich® Carboxyl Beads for Size Selection (SPRI alternative)	5 mL	70.00
A190606-30	Apostle MiniEnrich® Carboxyl Beads for Size Selection (SPRI alternative)	30 mL	200.00



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