NUPURE BEADS

INTRODUCTION

NuPure beads utilizes magnetic bead technology and an optimized buffer system for high-throughput purification of DNA and RNA fragments of a desired length. NuPure beads are uniform and stable for tunable and highly consistent DNA and RNA reaction purification and size selection in next-generation sequencing library preparation or other molecular biology workflows. The purification procedure is highly flexible to a variety of automation platforms because it utilizes magnetic separation and requires no centrifugation or vacuum filtration. The design enables faster binding, with high sensitivity and selectivity, in both manual and automated research applications.

HIGHLIGHTS

- *Superior performance* – optimized and designed to match or outperform other competitors.
- *Superior capacity and yield* – large surface area and high binding capacity for rapid and efficient target purification
- *Superior purity* – stable and smooth spherical surface for fast and efficient cleanups to remove unwanted reaction components
- *Eco-friendly* – no costly columns required and minimal use of plastics.

APPLICATION

- PCR Clean-up
- Size Selection
- NGS Library Prep
- Fragment analysis
- Restriction Digestion Clean-up

Easily Integrated into Existing Workflows

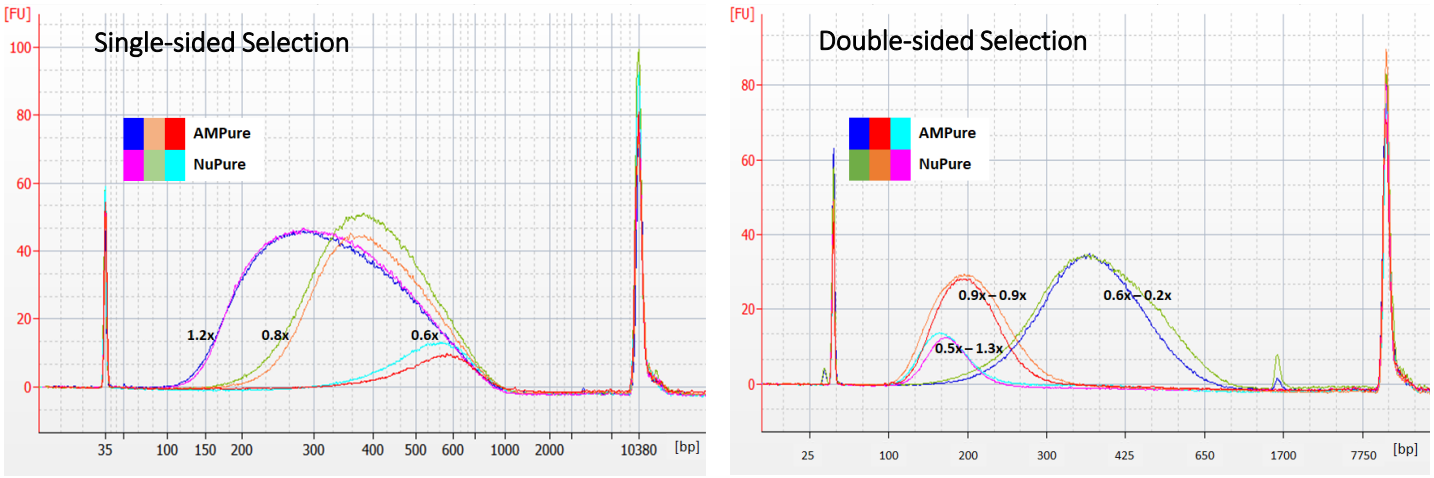

Figure 1. Example of input DNA subjected to bead-based size selection using NuPure beads and Agentcourt AMPure XP beads.

NuPure beads provide equivalent performance to Agentcourt AMPure XP beads and can be used to clean-up reactions or selectively bind DNA fragments of various lengths that are required in your specific workflows.

Tunable Size Selection

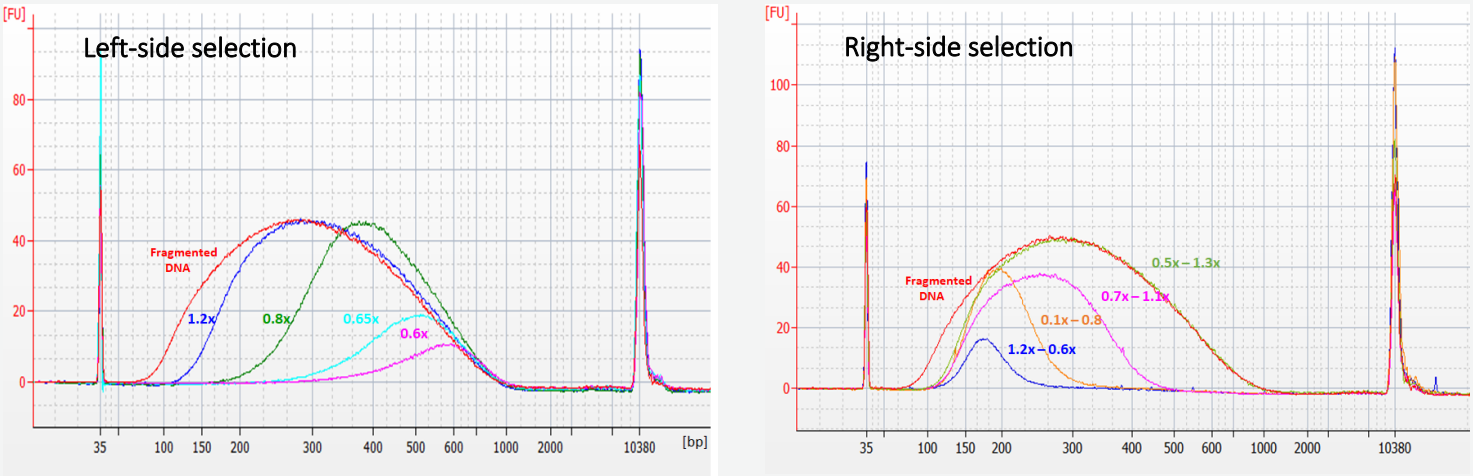

Figure 2. Example of left side size selection and right side size selection using NuPure beads.

NuPure beads offer flexible and adjustable size selection parameters to achieve desired DNA fragment lengths for your specific application.

Efficient PCR Purification and Recovery

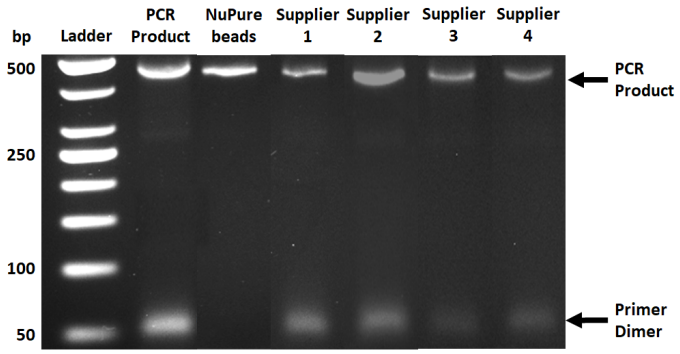

Figure 3. PCR purification using Ocean NanoTech's PCR cleanup workflow and NuPure beads.

NuPure beads are effective at removing PCR by-products (i.e. primer-dimers) and other contaminant that are retained by other competitor systems.

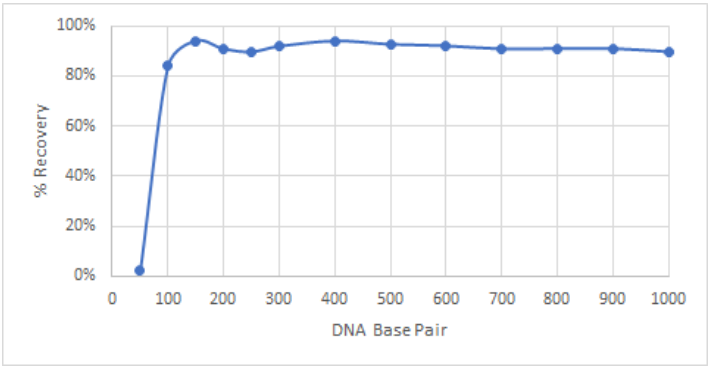

Figure 4. DNA recovery using Ocean NanoTech's PCR cleanup workflow and NuPure beads.

NuPure beads provide efficient cleanup of DNA and by-products under 100 base pairs, delivering high yields of DNA fragments greater than or equal to 100 base pairs.

Visit our website: www.oceannanotech.com to view our complete line of products and innovative sample preparation kits.

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