



Genomic Reagent Solutions

Next-Generation Sequencing Cleanup & Size Selection

ACCELERATING
answers

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part of Thermo Fisher Scientific

 **BECKMAN
COULTER**
Life Sciences

From the Human Genome Project to today's quest for precision medicine, we've long invested in providing genomic products that reduce complexity and improve productivity.

Beckman Coulter Life Science's Genomics reagent portfolio is powered by our proprietary SPRI technology, which uses paramagnetic beads to selectively bind nucleic acids.

SPRI technology enables Beckman's comprehensive portfolio of Genomics reagents to deliver scalable purification, extraction and size selection of optimal quality DNA and/or RNA in support of applications such as qPCR, ddPCR, Sanger sequencing, microarrays and next-generation sequencing (NGS).

Choose us as your OEM partner

Accelerating answers requires leading-edge solutions you can trust. By partnering with us as an OEM supplier to streamline development of your genomic assays, you're committing to a solution that you and your customers can rely on.

We're experts in scalable production of SPRI chemistry leverage our established infrastructure and expertise in manufacturing high-quality reagents.

We'll customize your solution, tailoring the volumes and sizes of our products to meet your specific needs.

We're committed to quality, prioritization and predictability: As your strategic OEM partner, we'll we'll deliver reliable products in a timely manner

Minimize the risk of losing critical data

By adding our quality-controlled genomic reagents to your assay kit, you empower your customers to maximize the recovery, reliability and speed of their entire NGS workflow.

Our gold standard NGS library cleanup solutions have been cited in 20,000+ scientific publications and are suggested for use in 200+ library prep kits, including those from trusted sequencing companies such as:

- *Illumina
- *IDT
- *Oxford Nanopore Technologies
- *Pacific Biosciences (PacBio)
- *NEB



AMPure XP reagent

The gold standard in bead-based NGS cleanup and size selection

Maximizing recovery, consistency, and speed to facilitate the entire NGS workflow, AMPure XP reagent meets the stringent needs of today's genomic applications and minimizes the risk of losing important genetic information.

That's why it's suggested in over 200 library preparation kits, including those from the industry's most trusted sequencing companies.

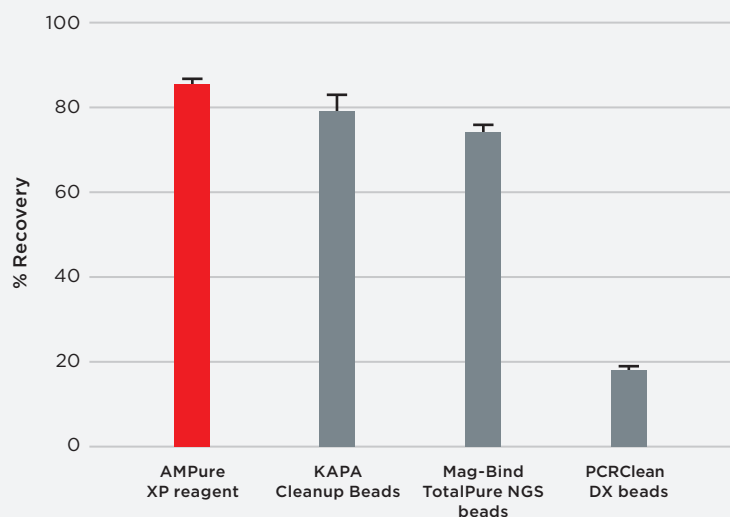
- Works with DNA
- High recovery of amplicons, > 100 bp
- Efficient removal of:
 - Unincorporated dNTPs
 - Primers
 - Primer dimers
 - Salts
 - Other contaminants



Studies by Mikheikin, A., et al. suggest that AMPure XP reagent would be the best choice for DNA analyses requiring higher analytical stringency in comparison to other purification kits.*

Consistent yields and recovery are crucial in NGS

Cleanup kits are a pivotal part of the NGS process. They have an immediate impact on efficiency and quality, as well as key impacts downstream. For optimal quality and efficiency, percent yield should be 80-95%, but not all cleanup kits can achieve consistently high yield.



*High-speed atomic force microscopy revealing contamination in DNA purification systems. Anal. Chem. 88:5, 2527-2523 (2016) doi: 10.1021/acs.analchem.5b04023

SPRIselect reagent

SPRI paramagnetic bead-based chemistry for simple & speedy size selection

Researchers get more flexibility and control over the size selection process by harnessing the power of SPRI technology, which provides robust, reproducible and customizable size selection with minimal lot-to-lot variance.

- Works with fragmented DNA
- Tuneable from 150-800 base pairs to offer easy adjustments for specific applications and sequencers
- Predictable, consistent size selection between runs and reagent lots
- Scalable from manual to automated workflows for high-throughput processing in 96-well plates
- Suggested for use in over 40 library preparation kits

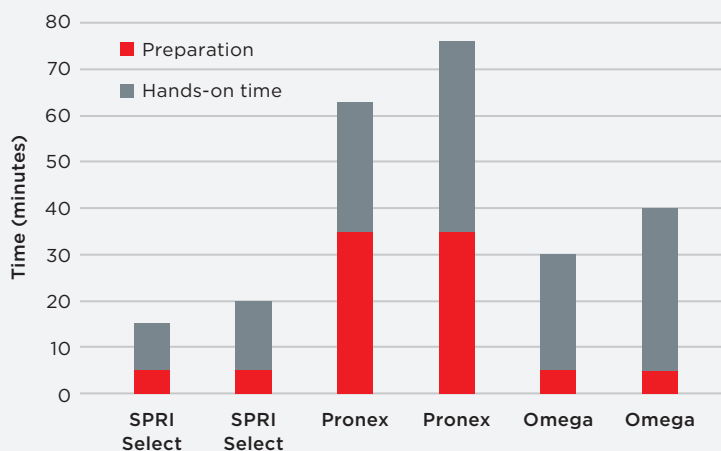


Store At Room Temperature

Researchers don't have to worry about finding room in the crowded freezer—they can store SPRIselect reagent at room temperature, right on their bench. And because they don't have to wait for it to warm up, they can streamline their workflow, minimize hands-on time and start library preparations sooner.

Cleanup Time

SPRIselect reagent and two other commercially available kits were used for size selection on sheared gDNA from *E. coli*. The graph shows the time for single size selection or cleanup. The SPRIselect reagent workflow for a single size selection is 4.2 and 2 times faster than Pronex and Omega, respectively. The times were based on performing size selection for 8 samples manually.



RNAClean XP reagent

The only cleanup kit with non-detectable levels of RNase

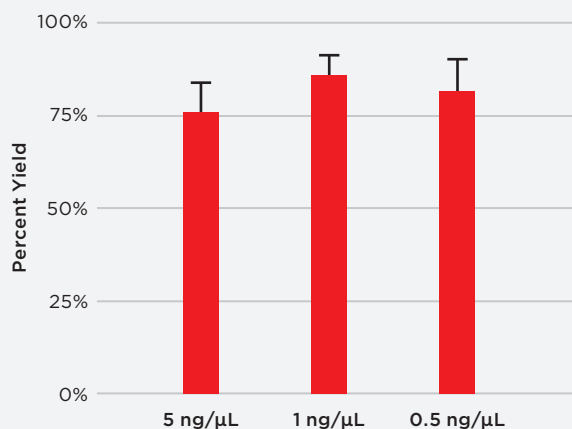
Thanks to SPRI chemistry, RNAClean XP reagent enables purification of RNA and cDNA from common enzymatic reactions and helps to ensure efficient recovery of samples.

- Works with RNA and cDNA
- Compatible with manual and automated processing
- Complete removal of salts, unincorporated primers and dNTPs
- Simple automation-friendly protocol with no centrifugation, filtration or precipitation steps
- Suggested for use in 20+ RNA-seq library preparation kits



Simple, Flexible & Highly Reproducible

The RNAClean XP reagent doesn't use organic solvents, vacuum filtration, or centrifugation, and delivers superior nucleic acid recovery and purity for downstream applications.



Three starting concentrations were purified using RNAClean XP reagent. All yields were similar, and the average recovery was 78% with a σ of 10%.

Selecting the right reagent

Here's a quick guide to help researchers choose the right reagent for their genomic application

Reagent	Nucleic Acid Input	Storage Temperature	Key Differentiator	Applications	Part Numbers & Volumes
 AMPure XP Reagent	 Works with DNA	 4°C	Known as the gold standard and suggested in PCR/NGS library cleanup in 200+ library prep kits, including some of the industry's most trusted sequencing companies.	PCR, NGS library prep, sample concentration	A63880, 5 mL A63881, 60 mL A63882, 450 mL
 SPRIselect Reagent	 Works with fragmented DNA	 Room Temperature	Quality controlled for size selection, and for manufacturing consistency to limit lot-to-lot variation.	Gel-free size selection, NGS library prep	B23317, 5 mL B23318, 60 mL B23319, 450 mL
 RNAClean XP Reagent	 Works with RNA and cDNA	 4°C	Only cleanup kit with non-detectable levels of RNase.	cDNA synthesis cleanup, IVT cleanup, RNA-seq prep	A63987, 40 mL A66514, 450 mL

Researchers can complete their workflows with our genomic reagents

NGS library preparation can be complemented by our growing portfolio of genomic solutions, which currently includes nucleic acid extraction and purification solutions for a range of input material, as well as automated and semi-automated devices. SPRI bead-based technology selectively immobilizes nucleic acids by type and size, and optimized binding conditions enable highly specific separation and cleanup protocols.

Nucleic Acid



AMPure XP Bead-Based Reagent

- Removes primers, unincorporated dNTPs, primer dimers, salts and other contaminants
- Eliminates fragments < 50 bp
- Recovers both double- and single-stranded DNA templates
- No PCR degradation after storage at 4° C for 7 days
- Captures DNA > 100 bp



RNAClean XP Reagent

- Certified RNase-free
- Complete removal of salts, unincorporated primers and dNTPs
- Used in RNA-Seq library preparations

Size Selection



SPRIselect Bead-Based Reagent

- Used for fragment size selection for library construction in NGS workflows
- Validated for target fragments 150-800 bp in length
- Tight manufacturing specifications ensure run-to-run and lot-to-lot reproducibility



Nucleic Acid Purification

CleanSEQ Reagents

- A rapid, high-performance dye-terminator removal process using SPRI technology
- Produces sequences with longer Phred 20 read lengths and higher signal intensities than any other purification technology



RNA Isolation

RNAdvance Extraction Kit

- Blood, Cell, Tissue and Viral kits
- Extract RNA from blood (PAXgene tubes), cultured eukaryotic cells, tissue, or saliva and swab transport media
- Produce high-quality RNA compatible with a variety of analysis techniques, such as NGS, microarray, or qRT-PCR



DNA Isolation

DNAdvance Extraction Kit

- A SPRI bead-based kit to isolate genomic DNA
- DNA from Tissue, Saliva, and Buccal swab
- Higher recovery and purity of gDNA comparing automated vs. manual protocols



GenFind V3 Extraction Kit

- Extraction and purification of gDNA from whole blood (fresh or frozen), serum, cultured cells, dry blood spots, mouthwash, saliva, bacteria, fungi, and mammalian tissue (fresh or frozen)
- High recovery of quality DNA for downstream applications, such as NGS library construction and PCR



DNA & RNA Isolation

FormaPure Total Extraction Kit

- Isolates DNA and RNA from formalin-fixed, paraffin-embedded (FFPE) tissue samples
- High performance for yield, integrity and purity
- Single chemistry system compatible with manual and automated processing of DNA and RNA from a single sample



cfDNA Extraction

Apostle MiniMax™ Kits

- High Efficiency cfDNA Isolation Kit
- Isolates cfDNA from 1-5 mL of plasma for liquid biopsy
- Demonstrated compatibility with a variety of collection tubes



Beckman PN	Fisher PN	Description
A29151	31723116	CleanSEQ Sanger Dye Terminator Removal Kit, 8 mL
A29154	31723152	CleanSEQ Sanger Dye Terminator Removal Kit, 50 mL
A29161	31723122	CleanSEQ Sanger Dye Terminator Removal Kit, 500 mL
A29174	31723131	CosMCPrep Plasmid Purification Kit, 4000 preps
A32645	31723150	RNAAdvance Tissue Total RNA Isolation Kit, 50 preps
A32646	31723121	RNAAdvance Tissue Total RNA Isolation Kit, 384 preps
A32649	31723108	RNAAdvance Tissue Total RNA Isolation Kit, 96 preps
A33341	31723115	FormaPure Total Nucleic Acid Extraction Kit, 50 preps
A33342	31723110	FormaPure Total Nucleic Acid Extraction Kit, 96 preps
A33343	31723139	FormaPure Total Nucleic Acid Extraction Kit, 384 preps
A35603	31723132	RNAAdvance Blood Total RNA Isolation Kit, 50 preps
A35604	31723120	RNAAdvance Blood Total RNA Isolation Kit, 384 preps
A37064	31723127	CosMCPrep Plasmid Purification Kit, 384 preps
A47942	31723128	RNAAdvance Cell V2 Total RNA Isolation Kit, 100 preps
A47943	31723149	RNAAdvance Cell V2 Total RNA Isolation Kit, 960 preps
A47949	31723151	Chloropure Plant Total Nucleic
A47951	31723124	Chloropure Plant Total Nucleic
A48706	31723107	DNAAdvance Kit - 9600 Preps
A63880	31723140	AMPure XP Beads for DNA Cleanup, 5 mL
A63881	31723106	AMPure XP Beads for DNA Cleanup, 60 mL
A63882	31723123	AMPure XP Beads for DNA Cleanup, 450 mL
A63987	31723141	RNAClean XP RNA and cDNA Cleanup Reagent, 40 mL
A66514	31723129	RNAClean XP RNA and cDNA Cleanup Reagent, 450 mL
B23317	31723109	SPRIselect DNA Size Selection Reagent, 5 mL
B23318	31723148	SPRIselect DNA Size Selection Reagent, 60 mL

Beckman PN	Fisher PN	Description
B23319	31723147	SPRIselect DNA Size Selection Reagent, 450 mL
B85620	31723142	RNAse A, 600uL
B89230	31723134	FormaPure DNA Isolation Kit, 50 preps
B89231	31723105	FormaPure DNA Isolation Kit, 96 preps
B89232	31723143	FormaPure DNA Isolation Kit, 384 preps
C16675	31723125	FormaPure Total Nucleic Acid Extraction Kit, 50 preps
C16676	31723130	FormaPure Total Nucleic Acid Extraction Kit, 96 preps
C19157	31723103	FormaPure RNA Extraction Kit, 50 preps
C19158	31723119	FormaPure RNA Extraction Kit, 96 preps
C34821	31723104	Proteinase K (GenFind V3 Kit)
C34827	31723146	Proteinase K
C34880	31723133	GenFind V3 Blood DNA Isolation Kit, 50 preps
C34881	31723114	GenFind V3 Blood DNA Isolation Kit, 384 preps
C35991	31723153	FormaPure XL Total Nucleic Acid Extraction Kit, 50 preps
C35992	31723136	FormaPure XL Total Nucleic Acid Extraction Kit, 96 preps
C35996	31723144	FormaPure XL DNA Isolation Kit, 50 preps
C35997	31723145	FormaPure XL DNA Isolation Kit, 96 preps
C36000	31723117	FormaPure XL RNA Extraction Kit, 50 preps
C36001	31723126	FormaPure XL RNA Extraction Kit, 96 preps
C40603	31723137	Apostle MiniMax cfDNA Isolation Kit
C40604	31723111	Apostle MiniMax cfDNA Isolation Kit
C40605	31723113	Apostle MiniMax cfDNA Isolation Kit
C43459	31723138	Apostle MiniMax cfDNA Isolation Kit
C59543	31723118	RNAAdvance Viral XP
C63510	31723135	RNAAdvance Viral, 768 preps

*Certified RNase-free as determined by non-detectable levels of RNases.

The products listed are not intended or validated for use in the diagnosis of disease or other conditions.

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