



Clean and Simple

AGENCOURT® CLEANSEQ®

DYE TERMINATOR REMOVAL

Agencourt CleanSEQ is a SPRI® (Solid Phase Reversible Immobilization) magnetic bead-based sequencing purification system with a simple three-step protocol. The Agencourt CleanSEQ method requires no centrifugation or filtration and efficiently purifies sequencing products to deliver superior quality sequencing data. Agencourt CleanSEQ's flexible, simple, and automation-compatible format is the preferred purification system of many genomic research facilities.

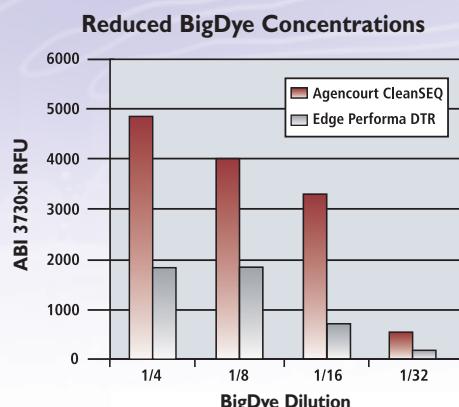


Figure 1. 3 μ L of amplified PCR* product: TP53_exon 5 was run in a 20 μ L sequencing reaction and purified with Agencourt CleanSEQ and Edge Biosystem's Performa DTR.

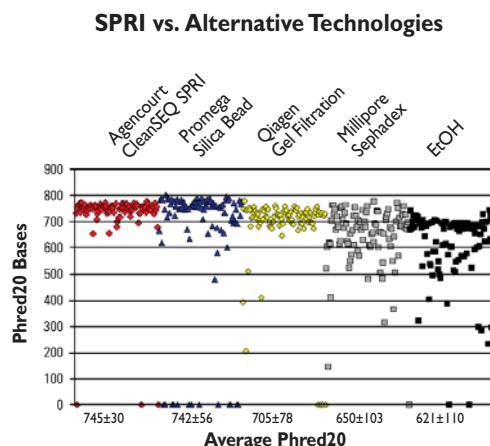


Figure 2. 96 pGEM DNA samples were sequenced using BigDye v3.0 terminators then pooled and redistributed prior to clean-up. Sequencing reactions were cleaned using Agencourt CleanSEQ, ethanol precipitation or competitor kits and run on an ABI 3700. Competitor products were run according to product instructions. Chart shows distribution of Phred20 read lengths with average Phred20 values and standard deviations.

High Quality Sequencing Results

Agencourt CleanSEQ consistently delivers:

- Long Phred20 read lengths averaging over 700 bps
- Pass rates of 85% or higher
- Increased average signal strength
- Efficient elimination of sequencing reaction contaminants

Flexible Purification

Agencourt CleanSEQ is compatible with common sequencing chemistries and platforms in both 96- and 384-well formats.

Platforms:

- Beckman Coulter CEQ™ series
- ABI Prism 3730, 3700 and 3100
- GE Healthcare MegaBACE

Supported Chemistries:

- BigDye versions 1.0, 1.1, 2.0, 3.0 and 3.1
- DYEnamic ET
- CEQ QuickStart and GenomeLab Methods Development Kit

High Average Signal

Agencourt CleanSEQ's unique purification method enables quality sequencing results with higher average signal intensities when compared to other methods such as Edge Biosystem's Performa DTR (Figure 1). Higher average signal intensities allow a wider range of input sample types to be processed without potential loss of resolution and pass rates.

Superior Sequencing Data

Agencourt CleanSEQ produces high sequencing pass rates and average Phred20 read lengths greater than 700 base pairs (see Figure 2). Results from direct comparison against EtOH precipitation, gel filtration, and silica-based magnetic reagents reveal Agencourt CleanSEQ's superior performance. This dye terminator removal system consistently delivers higher signal-to-noise ratios, higher signal intensities, and longer Phred20 read lengths. It is more reproducible than alternative clean-up methods due



to automation and low product loss and enables rapid, more cost effective sequencing (Figure 3).

Scalable and Automation-Friendly

The SPRI® magnetic bead-based technology is easily scaled and automation-friendly allowing both high throughput and format flexibility. To provide a complete automation solution, Agencourt has software scripts available for Beckman Coulter's Biomek® FX and NX.

Robotic Platform	Plates per Hour
Biomek FX/NX (Beckman Coulter) 96-well	11
Biomek FX/NX (Beckman Coulter) 384-well	6

Increased Signal Strength

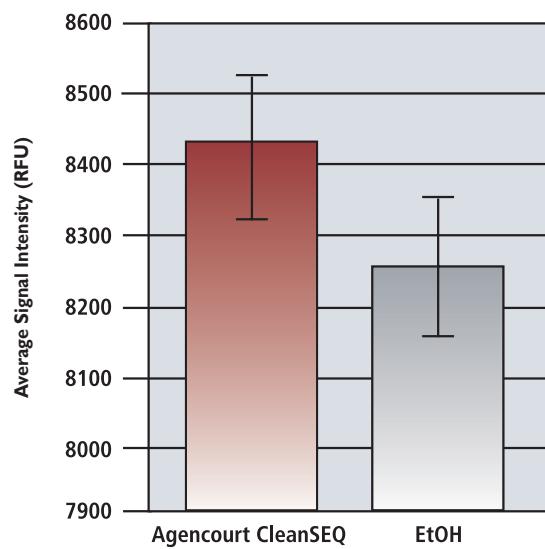


Figure 3. Identical 96-well plates were 1) sequenced using BigDye v3.1 Terminators, 2) purified to remove dye terminators by using Agencourt® CleanSEQ® or ethanol precipitation, and 3) run on an ABI 3730xl.



Ordering Information

For product pricing, please visit our website at www.agencourt.com or contact your local sales representative.

Product	Size	Product #
Agencourt CleanSEQ 96 Starter Kit	800 preps	000145
Agencourt CleanSEQ 384 Starter Kit	1,600 preps	000147
Agencourt CleanSEQ Kit (8 mL)	800/1,600 preps**	000121
Agencourt CleanSEQ Kit (50 mL)	5,000/10,000 preps**	000136

Related Products	Product #
Agencourt SPRIPlate® 96R Magnet Plate	000219
Agencourt SPRIPlate 384 Magnet Plate	000222

* The PCR process is covered by patents owned by Roche Molecular Systems, Inc., and E Hoffmann-La Roche, Ltd.

** 96- or 384-well format

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