

Scalable, automation friendly and High Throughput PCR purification.

Agencourt[®] CleanSEQ[®] System

Dye Terminator Removal

High Quality Sequencing Results Agencourt CleanSEQ consistently delivers: · Pass rates of 85% or higher

Agencourt CleanSEQ is a SPRI® (Solid Phase Reversible Immobilization) paramagnetic 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.

Reduced BigDye Concentrations 6000 Agencourt CleanSEQ Kit 5000 4000 3000 2000 1000 0 1/32 **BigDye Dilution**

Figure 1. 3 µL of amplified PCR1 product: TP53_exon 5 was run in a 20 µL sequencing reaction and purified with Agencourt CleanSEQ and Performa² DTR.

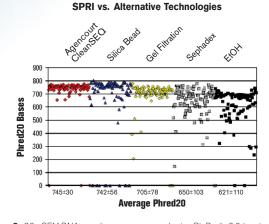


Figure 2. 96 pGEM DNA samples were sequenced using BigDye² v3.0 terminators then pooled and redistributed prior to clean-up. Sequencing reactions were cleaned using Agencourt CleanSEQ, ethanol precipitation or competitor kits and run on an ABI 3700. Competitor products were run according to product instructions. Chart shows distribution of Phred20 read lengths with average Phred20 values and standard deviations.

Genomics

Proteomics

Cell Analysis

Particle Characterization

Centrifugation

Lab Automation

Bioseparation

· Long Phred20 read lengths averaging over 700 bps

Lab Tools

- · 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 GenomeLab™ GeXP
- · ABI Prism 3730, 3700 and 3100
- · GE Healthcare MegaBACE²

Supported Chemistries:

- · BigDye versions 1.0, 1.1, 2.0, 3.0 and 3.1
- · DYEnamic ET
- · GenomeLab 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 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-tonoise 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).

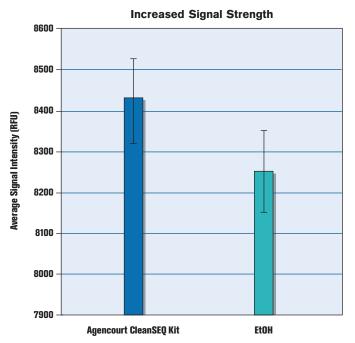


Figure 3.. Identical 96-well plates were sequenced using BigDye v3.1 Terminators, purified to remove dye terminators by using Agencourt CleanSEQ or ethanol precipitation, and run on an ABI 3730xl.

Scalable and Automation-Friendly

The SPRI paramagnetic 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® FXP and NXP.

Table 1

Plate Throughput
7 plates/hour
10 plates/hour
8 plates/hour
3 plates/hour
4 plates/hour
9 plates/hour
10 plates/hour
1 plate/hour
1 plate/hour

Kit Components

Agencourt CleanSEQ Reagent



Ordering Information

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

Product	Size	Product #
Agencourt CleanSEQ Kit (8 mL)	800/1,600 preps ³	000121
Agencourt CleanSEQ Kit (50 mL)	5,000/10,000 preps ³	000136

Related ProductsProduct #Agencourt SPRIPlate® 96R Magnet Plate000219Agencourt SPRIPlate 384 Magnet Plate000222

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 $^{^{\}dagger}$ The PCR process is covered by patents owned by Roche Molecular Systems, Inc., and F. Hoffman-La Roche, Ltd.

² All trademarks are the property of their respective owners.

³ 96- or 384-well format