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.

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 GenomeLab™ GeXP
• 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
• 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-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 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® FX® and NX®.

Kit Components
- Agencourt CleanSEQ Reagent

Table 1
<table>
<thead>
<tr>
<th>Robotic Platform</th>
<th>Plate Throughput</th>
</tr>
</thead>
<tbody>
<tr>
<td>Biomek NX® 96 Multi-channel, 96 PlateStak®, and 384 Multi-channel</td>
<td>7 plates/hour</td>
</tr>
<tr>
<td>Biomek FX® 96 Multi-channel, 96 PlateStak, and 384 Multi-channel</td>
<td>10 plates/hour</td>
</tr>
<tr>
<td>Biomek FX® dual pod 96 Multi-channel, 96 PlateStak, and 384 Multi-channel</td>
<td>8 plates/hour</td>
</tr>
<tr>
<td>Biomek NX® 384 Quad</td>
<td>3 plates/hour</td>
</tr>
<tr>
<td>Biomek FX® and FX® dual pod 384 Quad</td>
<td>4 plates/hour</td>
</tr>
<tr>
<td>Biomek NX® 384 PlateStak</td>
<td>9 plates/hour</td>
</tr>
<tr>
<td>Biomek FX® and FX® dual pod 384 PlateStak</td>
<td>10 plates/hour</td>
</tr>
<tr>
<td>Biomek NX® and FX® Span-8</td>
<td>1 plate/hour</td>
</tr>
<tr>
<td>Biomek 3000</td>
<td>1 plate/hour</td>
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</tbody>
</table>

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.

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

Product | Size | Product # |
<table>
<thead>
<tr>
<th></th>
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</thead>
<tbody>
<tr>
<td>Agencourt CleanSEQ Kit (8 mL)</td>
<td>800/1,600 preps¹</td>
<td>000121</td>
</tr>
<tr>
<td>Agencourt CleanSEQ Kit (50 mL)</td>
<td>5,000/10,000 preps²</td>
<td>000136</td>
</tr>
</tbody>
</table>

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

¹ The PCR process is covered by patents owned by Roche Molecular Systems, Inc., and F. Hoffmann-La Roche, Ltd.
² All trademarks are the property of their respective owners.
³ 96- or 384-well format