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Montage PCR μ 96 purification system. Improving the process of PCR purification for sequencing, microarraying and genotyping by reducing sample volumes, improving the recovery of small DNA fragments and increasing the overall efficiencies of purification.

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The application of laboratory processes to industrial-scale environments has necessitated the development of technologies which promotes the recovery of small volumes, are compatible with automated liquid handlers and provide a cost-effective means of delivering high throughput data. PCR is a key element of many current and emerging genomics applications, including sequencing, microarrays and genotyping. Each of these technologies is dependent upon rapid and robust post-PCR reaction clean-up methods that effectively remove salts, primers and dNTPs. Building upon Millipore's size exclusion based purification technology, the Montage PCR μ 96 plate has been developed specifically to meet the demands of modern PCR-based applications. The tapered well design of the Montage PCR μ 96 plate enables 20 μ l recovery volumes for a wide range of input reaction sizes. Because the Montage PCR μ 96 plate is SBS compliant and purification is achieved via vacuum filtration rather than through centrifugation, integration into virtually any existing automation/liquid handling system is possible. The Montage PCR μ 96 plate rapidly delivers the high quality PCR products required for the most demanding of downstream applications while maintaining high DNA recovery. We describe the use of Montage PCR μ 96 plate for clean-up of PCR templates prior to different genomics applications including sequencing, microarraying and genotyping.