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# Montage® Plasmid Miniprep$_{96}$ Kit

## *96-well kit for faster, easier preparation of high-purity plasmid DNA*

- *Excellent purity, yields and reproducibility*
- *Fast, centrifugation-free protocol*
- *Automation compatible*

DATA SHEET

### Quality Results

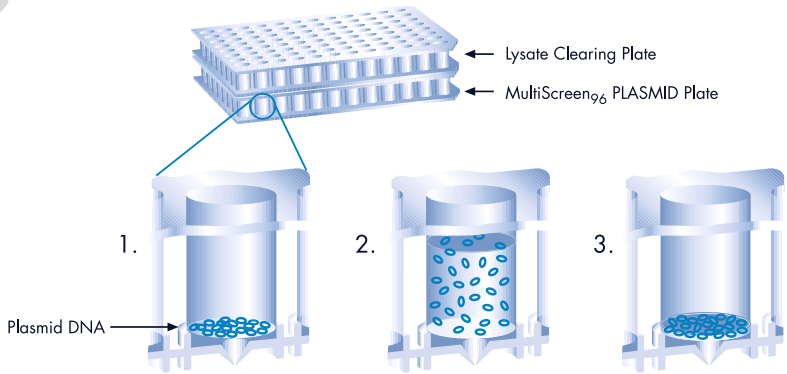
Montage Plasmid Miniprep$_{96}$ Kits provide a reproducible, high recovery means of purifying plasmid DNA. The automation-compatible protocol is fast and easy and yields quality DNA suitable for sensitive downstream applications including cloning, sequencing, transformation and PCR. The kits include all the reagents and disposable materials required to purify plasmid DNA in a 96-well format. Optimized automation protocols are also available online at www.millipore.com/automation.

### Minimum Processing Time

The Montage Plasmid Miniprep Kit incorporates Millipore's unique separation technology to recover high quality plasmid DNA in 50% less time than traditional methods. The size-exclusion technology requires no bind-and-elute or extra centrifugation steps.

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## Simply Clear, Concentrate and Wash, and Recover




1. Using vacuum, clear lysates from the Lysate Clearing Plate. Cleared lysate is captured in the MultiScreen™$_{96}$ PLASMID Plate.
2. Move MultiScreen$_{96}$ PLASMID plate to top of manifold and apply vacuum for approximately 5 to 7 minutes to concentrate sample. Plasmid DNA is retained on the membrane surface while contaminants are filtered to waste. Add wash solution and filter for 3 to 5 minutes.
3. Add resuspension buffer and collect purified sample by aspiration.

## No Centrifugation or Precipitation Steps Required

Following bacterial lysis, three short filtration steps are all that are required to prepare 96 clean DNA samples from each plate.

## Yields Comparable with Traditional Methods

| Host strain | Plasmid | Protocol | Yield (µg) |
|---|---|---|---|
| XL1-blue | pUC19 | Full Lysate | 5.1 ± 1.0 |
| | pLH2* | Full Lysate | 8.2 ± 1.0 |
| JM109 | pUC19 | Full Lysate | 5.7 ± 0.7 |
| | pLH2* | Full Lysate | 8.0 ± 1.1 |

* *pLH2 was derived from pUC19. The 2.0 Kb fragment of Hind III digested I phage was cloned into the Hind III site of pUC19, resulting in a 4.7 Kb plasmid.*

**Table 1.**

## Template Compatible with Recent Sequencing Chemistries

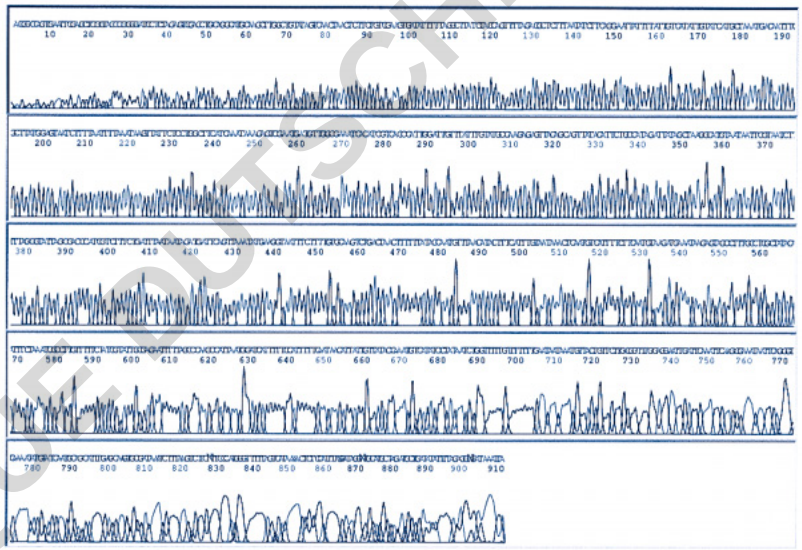


**Figure 1.** *3700, 6.3.1, ¼, Q20 = 820*

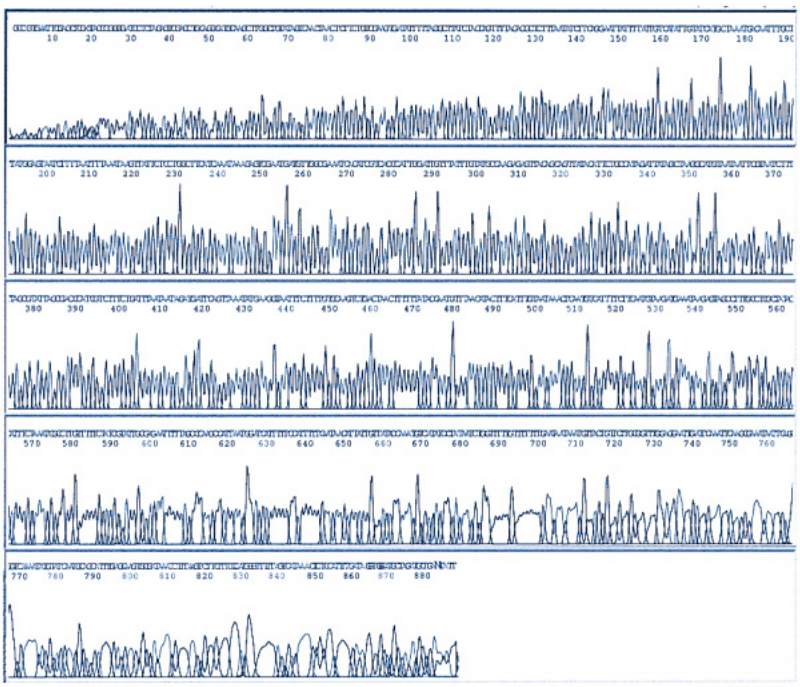
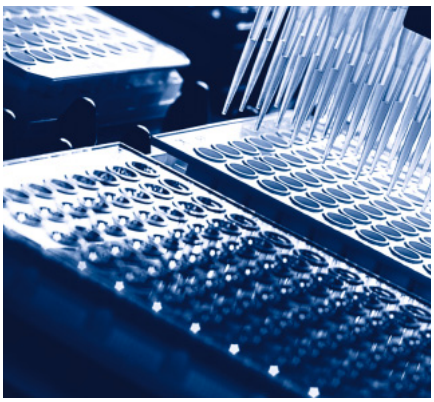


**Figure 2.** *3700, 6.3.1, ⅛, Q20 = 749.*

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## Automation-friendly Design

The Montage Plasmid Miniprep$_{96}$ Kit is ideal for use with automated liquid handlers. Collection of purified sample from the top of the plate and the lack of centrifugation steps enhances the kit's compatibility with a wide range of automated systems.



## Reliable Results

| Host Strain | Plasmid | Average Read Length (n = 24; > 98% accuracy) | Average PHRED (20 bases; n = 24) |
|---|---|---|---|
| XL1-blue | pUC19 | 707 | 618 |
| | pLH2 | 658 | 623 |
| JM109 | pUC19 | 706 | 602 |
| | pLH2 | 695 | 543 |

**Table 2.** *Sequence data from plasmids prepared with the Montage Plasmid Miniprep$_{96}$ Kit. All samples were sequenced using BigDye sequencing chemistry and were run on a MegaBACE capillary array sequencer. 160 ng of pLH2 and 100 ng of pUC19 were used in the respective reactions. Reactions were cleaned up using Millipore MultiScreen$_{384}$-SEQ plates.*

## Ordering Information

Each kit contains all of the reagents and materials, a comprehensive user guide, and an easy-to-follow protocol card.

| Description | Qty/Pk | Catalogue No. |
|---|---|---|
| Montage Plasmid | 1 x 96 plasmid miniprep | LSKP 096 01 |
| Miniprep$_{96}$ Kit | 4 x 96 plasmid minipreps | LSKP 096 04 |
| | 24 x 96 plasmid minipreps | LSKP 096 24 |

### Also Available

| | | |
|---|---|---|
| MultiScreen Vacuum Manifold with underdrain support grid | | MAVM 096 0R |
| Portable vacuum pump | 115 V, 60 Hz | XX55 000 00 |
| | 220 V, 50 Hz | XX55 220 50 |
| | 100 V, 50 – 60 Hz | XX55 100 00 |

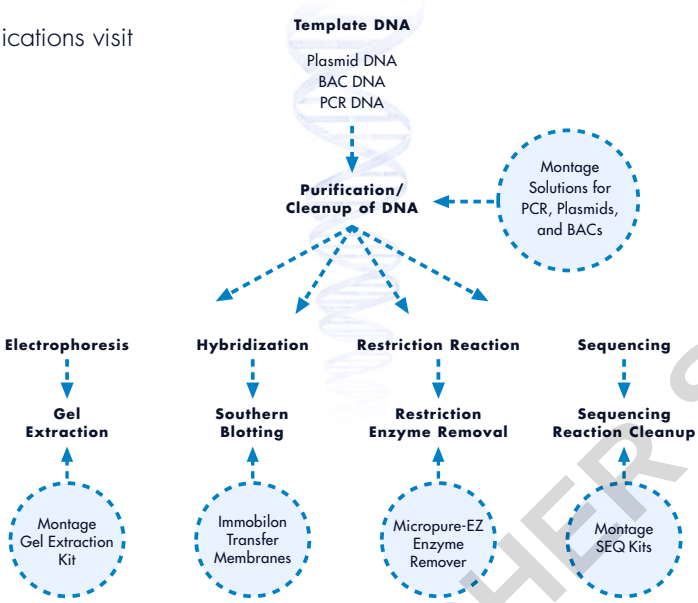
For a list of additional accessories, visit **www.millipore.com/montage.**

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## Millipore Sample Prep Solutions for Genomics

For more information on these applications visit
www.millipore.com/montage

montage® life science kits




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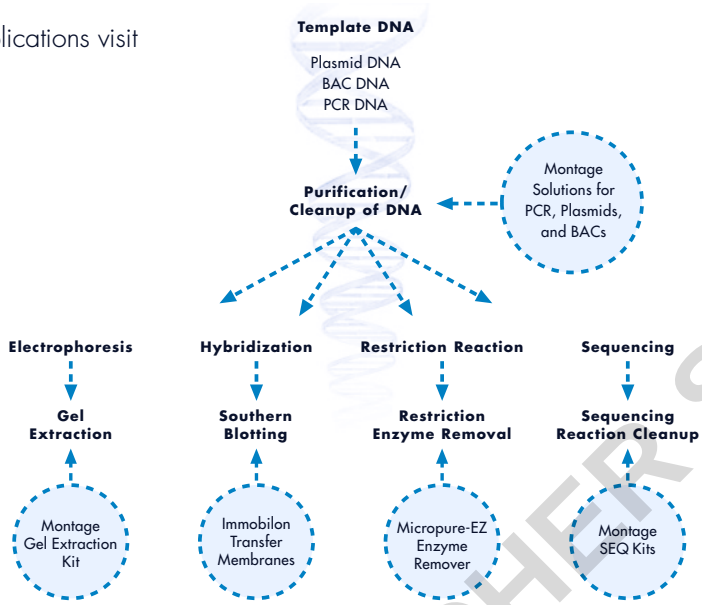
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