

# Montage™ DNA Gel Extraction Kit

**Fast, one-step DNA purification from agarose gels**

- ▶ Complete kit maximizes DNA recovery from agarose gel slices
- ▶ One 10-minute spin recovers fully functional DNA
- ▶ Purified DNA is ready for cloning or sequencing
- ▶ Kit includes modified TAE buffer for gel casting and running

## One-step DNA Purification

The Montage DNA Gel Extraction Kit is a fast, effective solution for fully functional DNA recovery from agarose gel slices. In one 10-minute spin, the agarose gel material containing the DNA of interest is fragmented and compressed to extrude the DNA that is ready for sequencing or cloning.

## Maximum DNA Recovery

The Montage Gel Extraction kit contains all the consumables needed to maximize DNA recovery from agarose gel slices.

The centrifugal device in the kit is built with a unique Gel Nebulizer that maximizes the efficiency of DNA extraction. The Gel Nebulizer converts the agarose gel material into a spray from which the DNA is then readily separated (see Figure 1).

The kit protocol is optimized for use with standard agarose (< 1.25% concentration) and centrifugation at 5,000 x g. **Note:** The protocol is not compatible with low melting point agarose.

The Montage kit delivers consistent, reliable recoveries for DNA ranging in size from 100 bp – 10,000 bp.

## Convenient Kit Includes Modified TAE Buffer

The Montage kit includes a pre-mixed modified TAE buffer as a 500-mL stock of 50 x concentrate for use in gel casting and running.

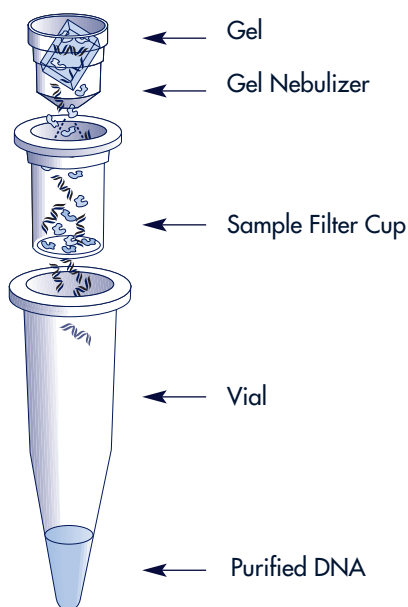
The modified TAE buffer is specifically formulated to prohibit any interference with sequencing reactions or other downstream enzymatic reactions.

## Quick and Easy Protocol

To recover fully functional DNA from an agarose gel, simply place the gel slice into the Gel Nebulizer and spin for 10 minutes at 5,000 x g.

Purified DNA is recovered in the filtrate vial and is ready for cloning or sequencing. It may also be stored in the capped filtrate vial for storage.

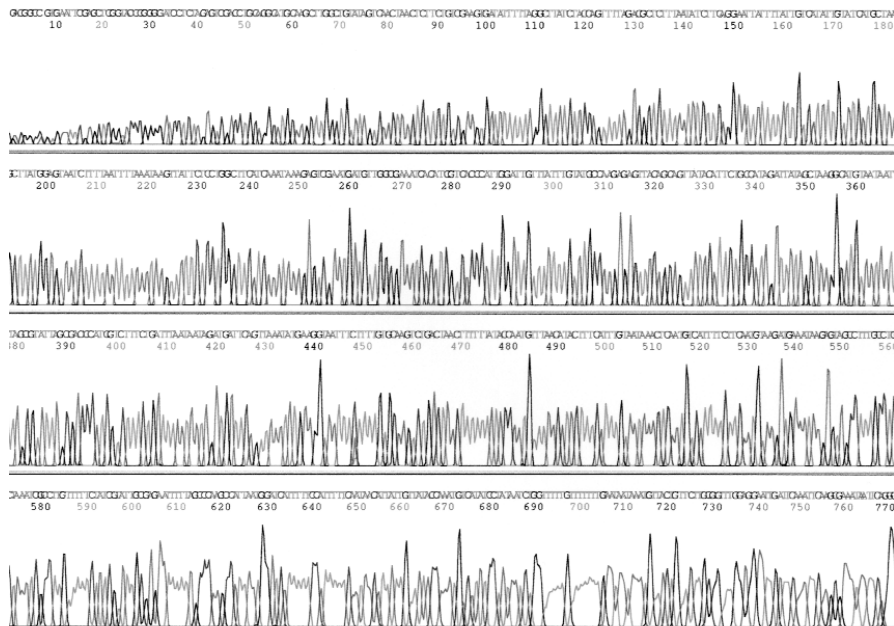
## Single-spin Operation



**Figure 1.** Exploded view of the Montage DNA Gel Extraction kit centrifugal device. Centrifugal force drives the agarose slice through a small orifice in the Gel Nebulizer. The resultant gel slurry is sprayed into the sample filter cup. As the spin compresses the agarose, DNA is extruded from the gel pores. The gel matrix is retained by the membrane, while purified DNA passes through into the collection vial.

## Performance

## Clean, high quality DNA for Sequencing



**Figure 2.** A 1-Kb PCR product was purified from a 1% agarose gel that was cast and run in modified TAE buffer. After purification from an agarose gel slice with the Montage DNA Gel Extraction kit, the PCR DNA fragment was sequenced with BigDye® version 3.0. Unincorporated dye terminators were removed by cleanup on a Montage SEQ<sub>96</sub> Sequencing Reaction Cleanup plate, and the reaction injected on an ABI 3700 capillary sequencer.

## Typical DNA Fragment Recoveries

DNA Size (bp)	Percent DNA Recovered
100	78
700	71
1000	77
2027	47
4361	35
9416	32
23130	29

**Table 1.** Typical DNA recoveries from agarose gels with the Montage DNA Gel Extraction Kit. DNA recoveries remain above 50% for fragments that are 2 Kb or smaller. For DNA larger than 2 Kb, recovery drops to about 30% because of the inefficient extrusion of larger DNA fragments.



### Ordering Information

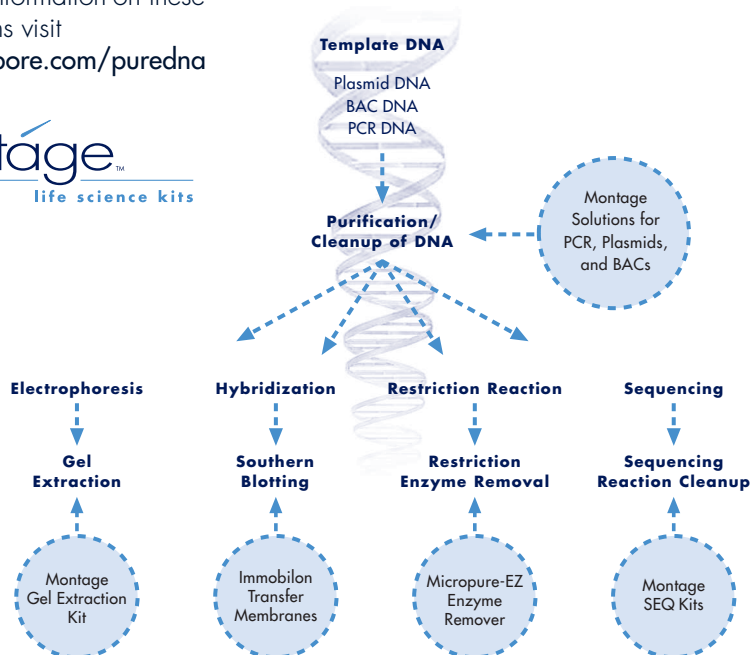
Kit includes 50 pre-assembled centrifugal units and 500 mL of 50x stock modified TAE buffer. A user guide is also provided.

Description	Qty/Pk	Catalogue No.
Montage DNA Gel Extraction Kit	50 devices/pk	LSK GEL 050
Optional Accessories		
50 x Modified TAE buffer	1 x 500 mL bottle	LSK MTAE50

## Millipore Sample Prep Solutions for Genomics

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