Zymoclean™ Gel DNA Recovery Kit

Simplest, Fastest Gel DNA Recovery with Minimal Elution Volume!

Simple, Rapid Gel DNA Recovery in Minutes

Highlights

- Quick (15 minute) recovery of ultra-pure DNA from TAE or TBE-buffered gels.
- Column and Filtration Plate design allows DNA to be eluted at high concentrations into minimal volumes of water or TE buffer with no wash residue carryover.
- Omits the use of glass beads, organic denaturants, and proteinases.
- Eluted DNA is well suited for use in DNA ligations, sequencing, labeling reactions, PCR, etc.

Specifications

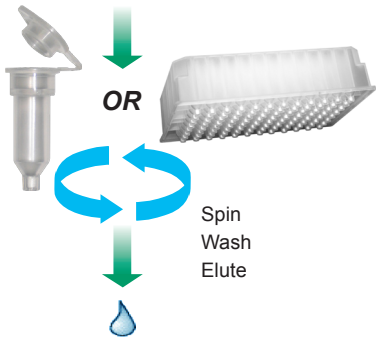
- **Formats:** Spin Column/96-well Filtration Plate
- **DNA Size Limits:** From 50 bp to 23 kb
- **Minimal Elution Volume:** ≥ 6 µl
- **DNA Binding Capacity:** Up to 5 µg total DNA per column or well.
- **Buffer Tolerance:** TAE, TBE

ZYMO RESEARCH
The Beauty of Science is to Make Things Simple

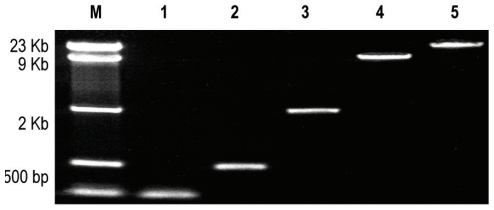
OZYME
Des femmes et des hommes
au service de vos recherches

The **Zymoclean™ Gel DNA Recovery Kit** and **ZR-96 Zymoclean™ Gel DNA Recovery Kit** provide simple, rapid methods for the purification and concentration of high quality DNA from agarose gel slices. Both products feature a single buffer system that allows for efficient dissolving of agarose gel slices and the subsequent adsorption of DNA onto the matrices of the supplied **Zymo-Spin I™ Columns** or **Zymo-Spin I-96™ Filtration Plate**. The DNA is washed twice then eluted with a small volume of water. The entire DNA purification/concentration procedure typically takes about 15-20 minutes. The procedure is easy: simply add the specially formulated **Agarose Dissolving Buffer (ADB™)** to the gel slice containing your DNA sample, let dissolve, and transfer the mixture to the supplied column or filtration plate, then spin, wash, and elute the DNA. There is no need for organic denaturants or chloroform. Instead, the products utilize unique column and filtration plate technologies to yield high quality, purified DNA in just minutes. DNA purified using the **ZymoClean™ Gel DNA Recovery Kit** and **ZR-96 Zymoclean™ Gel DNA Recovery Kit** is perfectly suited for use in DNA ligation reactions, sequencing, DNA labeling reactions, PCR, etc.

DNA Agarose Gel Slices
+ **ADB Buffer**



Ultra-pure DNA for...
- Sequencing
- DNA Ligation
- Endonuclease Digestion
- Etc.



The **Zymoclean™ Gel DNA Recovery Kit** can be used to effectively recover DNA from agarose gels. Lanes: M: DNA Ladder; 1-5: ladder DNA excised from gel and recovered using the **Zymoclean™** kit.

Comparative Overview

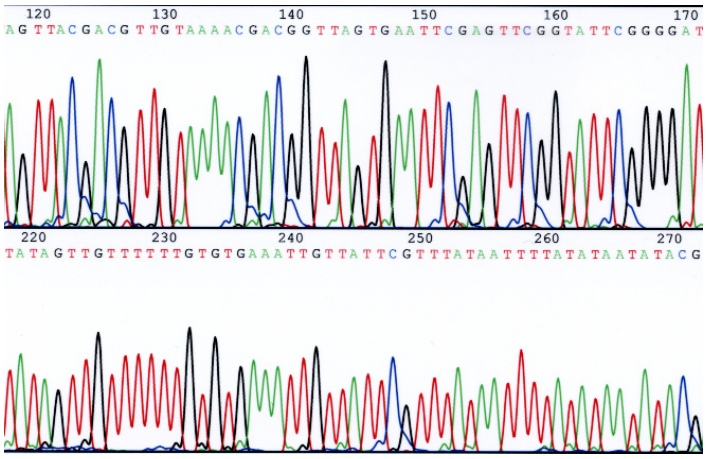
	Zymoclean™	Competitor Q	Competitor I	Competitor S
Protocol	Simple	Complicated	Complicated	Complicated
Processing Time	15 min.	20 min.	30 min.	20 min.
Column Binding Capacity	5 µg	5 µg	15 µg	10 µg
Minimal Elution Volume	6 µl	10 µl	50 µl	50 µl
Maximum DNA Concentration	0.8 µg/µl	0.5 µg/µl	0.3 µg/µl	0.2 µg/µl
Wash Residue Carryover	No	Yes	Yes	Yes
Kit Storage	Room Temp.	Columns @ 4°C	Room Temp.	Room Temp.
96-well Format	Yes	No	No	No

Zymoclean™ Gel DNA Recovery Kit

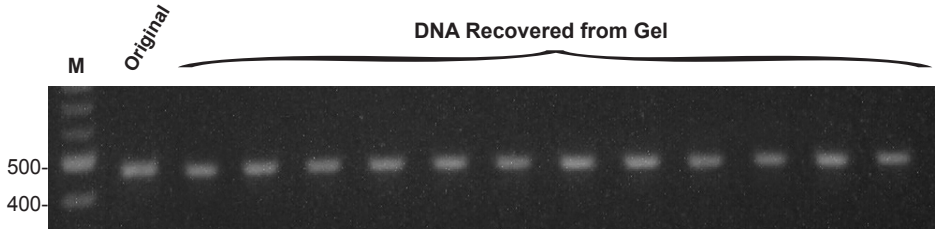
Zymoclean™ Gel DNA Recovery Kit Short Protocol

1. Add 3 volumes of **ADB Buffer** to each volume of gel.
2. Incubate at 55ºC for 5-10 minutes (do not incubate above 60ºC).
3. Add the melted agarose solution into a Zymo-Spin™ Column and place into a 2 ml collection tube.
4. Centrifuge for 5-10 seconds. Empty the collection tube whenever necessary.
5. Add 200 µl of Wash Buffer to the column and spin for 10 seconds. Add 200 µl of Wash Buffer and spin for 30 seconds.
6. Place the Zymo-Spin Column into a new 1.5 ml tube. Add 6-10 µl of water directly to the column matrix and spin to elute the DNA.

Zymoclean™ Consistently Produces the Best Substrates for DNA Sequencing



Methyl-sequencing results of a PCR product recovered using the **Zymoclean™ Gel DNA Kit**. DNA that was processed using the **EZ DNA Methylation-Gold Kit™** was amplified by PCR and recovered from a 2% (w/v) agarose gel with the **Zymoclean™ Gel DNA Recovery Kit**. The recovered DNA was then used directly for sequencing. **Note**: All cytosines comprising CG dinucleotides were methylated in the original DNA, making them resistent to bisulfite-mediated conversion by the **EZ DNA Methylation-Gold Kit™**. All other cytosines (i.e., unmethylated) were converted into U and shown as T in the sequencing chromatogram.



Gel DNA recovery using the **ZR-96 Zymoclean™ Gel DNA Recovery Kit**. PCR products of 470 bp were purified from a 2% (w/v) agarose gel using the **ZR-96 Zymoclean™ Gel DNA Recovery Kit** and the recovered DNAs from 12 random wells are shown.

Ordering Information

Product Description	Catalog No.	Quantity
Zymoclean™ Gel DNA Recovery Kit	D4001 D4001T D4002	50 preps. 10 preps. 200 preps.
ZR-96 Zymoclean™ Gel DNA Recovery Kit	D4021 D4022	2x96-well plates 4x96-well plates

Note - ™ Trademarks of Zymo Research Corporation. This product is for research use only and should only be used by trained professionals. Some reagents included with this kit are irritants. Wear protective gloves and eye protection.