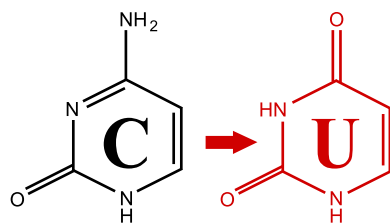


# EZ Bisulfite DNA Clean-up Kit™

## Consistent, High Yield Recovery of Bisulfite-Treated DNA

- For purification of bisulfite-treated DNA from any “homebrew” or commercial reaction mixture containing bisulfite.
- Simple spin column/plate procedure with small elution volumes for concentrated DNA.
- Recovered DNA is ideal for downstream methylation analysis including PCR, endonuclease digestion, sequencing, arrays, etc.



The EZ Bisulfite DNA Clean-up Kit™ has been specifically designed for the purification of bisulfite-treated DNA from any “homebrew” or commercial reaction mixture containing bisulfite.

The product features innovative *Fast-Spin*, in-column/ plate desulphonation and wash technologies that eliminate DNA loss, buffer carryover and the need for ethanol/isopropanol precipitations. The procedure is easy and DNA clean-up can be completed in just minutes. Bisulfite-treated DNA purified with the EZ Bisulfite DNA Clean-up Kit™ is ideal for PCR amplification for downstream DNA methylation analysis including endonuclease digestion, sequencing, microarrays, etc.

### Input

Up to 5 µg DNA (per column/well) from “homebrew” or commercial reaction mixtures containing bisulfite.

### DNA Yield

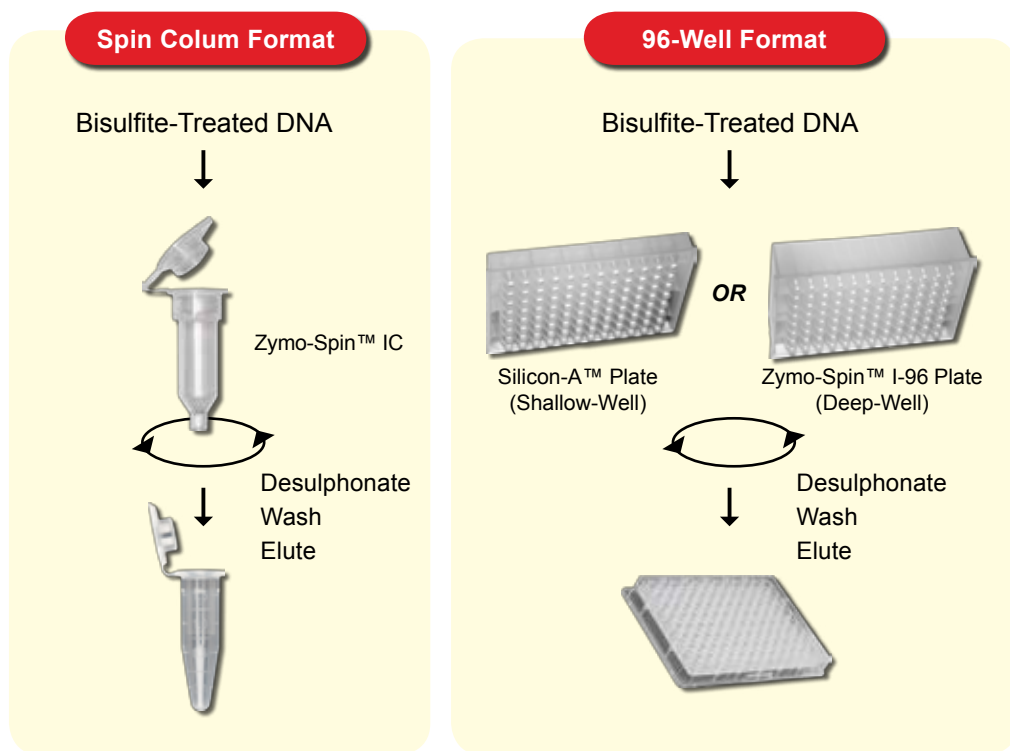
Typical yields are between 80-90%.

### DNA Purity

DNA is eluted with ≥ 10 µl M-Elution Buffer or water.

### Formats

Spin column & 96-well plate



DNA is perfect for...

- PCR
- Endonuclease Digestion
- Arrays
- Sequencing



**ZYMO RESEARCH**

*The Beauty of Science is to Make Things Simple*

Toll-Free 1-888-882-9682  
 Main 1-714-288-9682  
 Fax 1-714-288-9643  
 Email info@zymoresearch.com  
 Web www.zymoresearch.com

96-Well Binding Plate	Silicon-A™ Plate	Zymo-Spin™ I-96 Plate
Style	Shallow-Well)	Deep-Well
Height of Binding Plate	19 mm (0.75 inches)	35 mm (1.38 inches)
Binding Plate/Collection Plate Assembly	43 mm (1.69 inches)	60 mm (2.36 inches)
Binding Cap./Minimum Elution Volume	5 µg/30 µl	5 µg/15 µl
Catalog Numbers	D5027	D5028

# EZ Bisulfite DNA Clean-up Kit™

## EZ Bisulfite DNA Clean-up Kit™ Protocol

1. Add 4 volumes of M-Binding Buffer to each volume of a bisulfite-containing reaction mixture (4:1) and mix.  
**For Example:** Add 400 µl M-Binding Buffer to 100 µl from a conversion reaction.
2. Load the mixture into a **Zymo-Spin™ IC Column** in a **Collection Tube**.
3. Centrifuge at 10,000 x *g* for 30 seconds. Discard the flow-through.
4. Add 100 µl of **M-Wash Buffer** to the column. Centrifuge at 10,000 x *g* for 30 seconds.
5. Add 200 µl of **M-Desulphonation Buffer** to the column and let stand at room temperature (20°C - 30°C) for 15 - 20 minutes. After the incubation, centrifuge at 10,000 x *g* for 30 seconds.
6. Add 200 µl of **M-Wash Buffer** to the column. Centrifuge at 10,000 x *g* for 30 seconds. Add another 200 µl of **M-Wash Buffer** and centrifuge for an additional 30 seconds.
7. Place the column into a 1.5 ml microcentrifuge tube. Add 10 µl of **M-Elution Buffer** directly to the column matrix. Centrifuge for 30 seconds at 10,000 x *g* to elute the DNA.

## Frequently Asked Questions:

**Q: At what temperature and for how long can converted DNA be stored?**

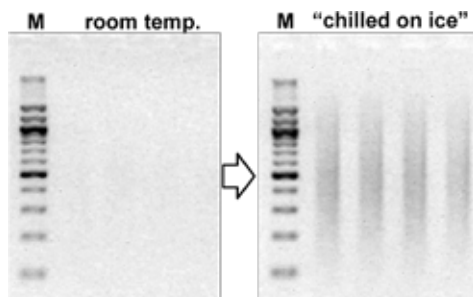
*A: The sample should be stored at ≤ -20°C whenever possible. The quality of the DNA should remain relatively unchanged for up to 3 months.*

**Q: Which Taq polymerase(s) do you recommend for PCR amplification of converted DNA?**

*A: We recommend a "hot start" DNA polymerase (e.g., ZymoTaq™ DNA Polymerase).*

**Q: Why are there two different catalog numbers for the EZ-96 Bisulfite DNA Clean-up Kit™?**

*A: The two different catalog numbers are used to differentiate between the binding plates that are included in the kit. Deep and shallow-well binding plates are available to accommodate most rotors and microplate carriers.*



**“Visualizing” bisulfite-treated DNA in agarose/EtBr gels is best done following chilling the gels on ice.** In the figures above, bisulfite-treated salmon sperm DNA was desulphonated then purified using the EZ Bisulfite DNA Clean-up Kit™. The DNA, mostly single stranded, was then separated in a 0.8 % (w/v) agarose/TAE/EtBr gel and visualized with a UV-light source immediately following electrophoresis (room temp) and after chilling the gel on ice for 15 minutes. M is a 100 bp DNA ladder (Zymo Research).

## Ordering Information

Spin Column Format	Catalog No.	Kit Size
EZ Bisulfite DNA Clean-up Kit™	D5025	50 preps.
	D5026	200 preps.

96-well Format	Catalog No.	Kit Size
EZ-96 Bisulfite DNA Clean-up Kit™ (Shallow-Well)	D5027	2 x 96 preps.
EZ-96 Bisulfite DNA Clean-up Kit™ (Deep-Well)	D5026	2 x 96 preps.