



ZYMO RESEARCH

DNA  
Purification  
ANALYSIS Made Simple™

## ZymoPURE™ Plasmid Miniprep Kit

Rapid purification of transfection-grade plasmid DNA from up to 5 ml of overnight *E. coli* culture.

### Highlights

- Purify up to 100 µg of plasmid DNA in as little as 25 µl directly from a spin-column.
- Purified plasmid DNA contains 50,000 times fewer endotoxins than industry leading minipreps.
- Purify constructs up to ~200 kb in size.

Catalog Numbers:  
D4208T, D4209, D4210, D4211, D4212



Scan with your smart-phone camera to view the online protocol/video.



tech@zymoresearch.com



www.zymoresearch.com



Toll Free: (888) 882-9682

# **Table of Contents**

---

|   |           |
|---|-----------|
| <b>Product Contents</b> .....               | <b>01</b> |
| <b>Specifications</b> .....                 | <b>02</b> |
| <b>Product Description</b> .....            | <b>03</b> |
| <b>Procedure Overview</b> .....             | <b>04</b> |
| <b>Protocol</b> .....                       | <b>05</b> |
| Buffer Preparation .....                    | <b>05</b> |
| Plasmid DNA Purification .....              | <b>05</b> |
| <b>Appendices</b> .....                     | <b>08</b> |
| Low-Copy Number Protocol .....              | <b>08</b> |
| Gram-Positive Bacteria Protocol .....       | <b>09</b> |
| <b>Troubleshooting</b> .....                | <b>10</b> |
| <b>Ordering Information</b> .....           | <b>12</b> |
| <b>Complete Your Cloning Workflow</b> ..... | <b>13</b> |
| <b>Notes</b> .....                          | <b>14</b> |
| <b>Guarantee</b> .....                      | <b>15</b> |

# Product Contents

| ZymoPURE™<br>Plasmid<br>Miniprep Kit     | D4208T<br>(10 prep) | D4209<br>(50 prep) | D4210<br>(100 prep) | D4211<br>(400 prep) | D4212<br>(800 prep) | Storage<br>Temperature |
|--|---------------------|--------------------|---------------------|---------------------|---------------------|------------------------|
| ZymoPURE™<br>P1 <sup>1</sup> (Red)       | 3 ml                | 13 ml              | 13 ml<br>(2x)       | 100 ml              | 210 ml              | 4°C                    |
| ZymoPURE™<br>P2 <sup>2,3</sup> (Green)   | 3 ml                | 13 ml              | 13 ml<br>(2x)       | 100 ml              | 210 ml              | Room Temp.             |
| ZymoPURE™<br>P3 (Yellow)                 | 3 ml                | 13 ml              | 13 ml<br>(2x)       | 100 ml              | 210 ml              | Room Temp.             |
| ZymoPURE™<br>Binding Buffer <sup>3</sup> | 3 ml                | 14 ml              | 14 ml<br>(2x)       | 110 ml              | 110 ml<br>(2x)      | Room Temp.             |
| ZymoPURE™<br>Wash 1                      | 12 ml               | 20 ml<br>(2x)      | 20 ml<br>(4x)       | 320 ml              | 320 ml<br>(2x)      | Room Temp.             |
| ZymoPURE™<br>Wash 2 <sup>4</sup>         | 11 ml               | 12 ml              | 23 ml               | 28 ml<br>(3x)       | 28 ml<br>(6x)       | Room Temp.             |
| ZymoPURE™<br>Elution Buffer              | 1 ml                | 1 ml<br>(2x)       | 6 ml                | 12 ml               | 30 ml               | Room Temp.             |
| Zymo-Spin™<br>II-PX Columns              | 10 pcs              | 50 pcs             | 100 pcs             | 400 pcs             | 800 pcs             | Room Temp.             |
| Collection<br>Tubes                      | 10 pcs              | 50 pcs             | 100 pcs             | 400 pcs             | 800 pcs             | Room Temp.             |
| Instruction<br>Manual                    | 1 pc                | 1 pc               | 1 pc                | 1 pc                | 1 pc                | Room Temp.             |

<sup>1</sup> ZymoPURE™ P1 contains RNase A (100 µg/ml) and is stable at room temperature without loss in RNase activity, however, for long-term storage the product should be stored at 4-8° C.

<sup>2</sup> Caution: ZymoPURE™ P2 Buffer contains NaOH. Please use proper safety precautions.

<sup>3</sup> The ZymoPURE™ P2 and ZymoPURE™ Binding Buffer may have precipitated. If this occurs, dissolve the precipitate by incubating the bottles at 30-37 °C for 10-20 minutes and mix by inversion. Do not microwave!

<sup>4</sup> ZymoPURE™ Wash 2 included with D4208S and D4208T is supplied ready-to-use and does not require the addition of ethanol prior to use. ZymoPURE™ Wash 2 included with D4209, D4210, D4211, and D4212 are supplied as a concentrate and require the addition of ethanol prior to use. See Buffer Preparation (page 4) for instructions.

# Specifications

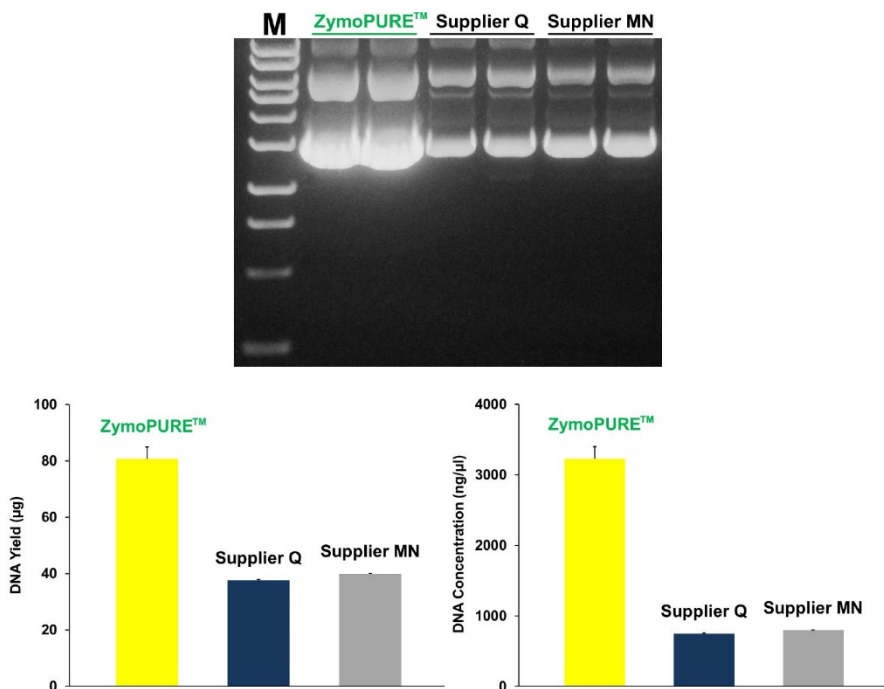
- **DNA Purity** – Eluted DNA is ultrapure, endotoxin-free, and well suited for transfection, transformation, lentivirus production, adenovirus production, AAV production, CRISPR, genome editing, sequencing, restriction endonuclease digestion, *in vitro* transcription/translation, PCR, and other sensitive applications.
- **Plasmid DNA Yield** – Up to 100 µg per preparation (*Actual yield is dependent on the plasmid copy number, culture growth conditions, and strain of E. coli utilized*)
- **Plasmid DNA Size** – Up to 200 kb
- **Recovery Volume** – ≥ 25 µl of ZymoPURE™ Elution Buffer or DNase free water
- **Processing Time** – 15 min
- **Required Equipment** – Microcentrifuge and/or vacuum manifold (recommended).

# Product Description

The **ZymoPURE™ Plasmid Miniprep Kit** features a spin column-based method for the purification of up to 100 µg of ultra-pure endotoxin-free plasmid DNA in less than 15 minutes. The unique spin-column design also provides zero buffer retention and a low elution volume.

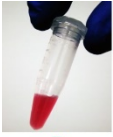
ZymoPURE™ technology uses a modified alkaline lysis method and features novel binding chemistry that yields highly concentrated plasmid DNA (up to 3 µg/µl). In addition, the wash regimen has been optimized to ensure the plasmid DNA is free of endotoxins, salt, protein, and RNA. The result is plasmid DNA suitable for transfection, transformation, lentivirus production, adenovirus production, AAV production, CRISPR, genome editing, sequencing, restriction endonuclease digestion, *in vitro* transcription/translation, PCR and other sensitive downstream applications.

As an added convenience, the **ZymoPURE™ Plasmid Miniprep Kit** contains colored buffers that permit error-free visualization and identification of complete bacterial cell lysis and neutralization.

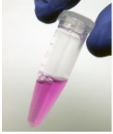


**Plasmid DNA yield and concentration from the ZymoPURE™ Miniprep Kit compared to other major suppliers.** Plasmid DNA (pGL3®) was isolated from 5 ml of JM109 *E. coli* culture grown overnight following the manufacturer's suggested protocol (in duplicate). One (1) µl of eluted plasmid DNA was visualized post agarose gel electrophoresis. M, ZR 1 kb DNA Marker (Zymo Research).

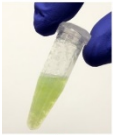
# Procedure Overview



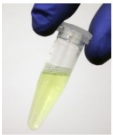
Bacterial cells are resuspended in **ZymoPURE™ P1** (red).



The solution will turn dark purple and viscous following the addition of **ZymoPURE™ P2** (green) indicating bacterial lysis is complete.



The solution will turn yellow and a precipitate will form after adding **ZymoPURE™ P3** (yellow) indicating neutralization is complete.



**ZymoPURE™ Binding Buffer** is added to the cleared lysate and mixed thoroughly.



The mixture is loaded into the **Zymo-Spin™ II-PX Column** using a vacuum manifold or microcentrifuge.



The **Zymo-Spin™ II-PX Column** is washed using a vacuum manifold or microcentrifuge.



Transfection-grade plasmid DNA is eluted from the **Zymo-Spin™ II-PX Column** using a microcentrifuge.

# Protocol

## Buffer Preparation:

- ✓ Add 46 ml of 95% ethanol to the **12 ml ZymoPURE™ Wash 2 (Concentrate)** (D4209), 88 ml of 95% ethanol to the **23 ml ZymoPURE™ Wash 2 (Concentrate)** (D4210), or 107 ml of 95% ethanol to the **28 ml ZymoPURE™ Wash 2 (Concentrate)** (D4211 & D4212) before use.
- ✓ The **ZymoPURE™ P2** and **ZymoPURE™ Binding Buffer** may have precipitated. If this occurs, dissolve the precipitate by incubating the bottles at 30-37 °C for 10-20 minutes and mix by inversion. Do not microwave!

## Plasmid DNA Purification

The following procedure should be performed at room temperature (15-30°C).

1. Centrifuge 0.5-5 ml<sup>1</sup> of bacterial culture in a clear 1.5 ml tube at full speed for 15-20 seconds in a microcentrifuge. Discard supernatant.
2. Add 250 µl of **ZymoPURE™ P1 (Red)** to the bacterial cell pellet and resuspend completely by vortexing or pipetting.
3. Add 250 µl of **ZymoPURE™ P2 (Green)** and immediately mix by gently inverting the tube 8-10 times. Do not vortex! Let sit at room temperature for 3 minutes<sup>2</sup>. *Cells are completely lysed when the solution appears clear, purple, and viscous.*
4. Add 250 µl of **ZymoPURE™ P3 (Yellow)** and mix thoroughly by inversion. Do not vortex! Invert the tube an additional 5 times after the sample turns completely yellow. *The sample will turn yellow when the neutralization is complete, and a yellowish precipitate will form.*
5. Centrifuge the neutralized lysate for 5 minutes at 16,000 x g.
6. Transfer exactly 600 µl of supernatant from step 5 into a clean 1.5 ml microcentrifuge tube.
7. Add 260 µl of **ZymoPURE™ Binding Buffer** to the cleared lysate from step 6 and mix thoroughly by vortexing for 15 seconds.

*To continue processing the lysate using the recommended vacuum protocol, proceed to the next page. If a vacuum is not available, proceed to page 7 for an alternative centrifugation method.*

---

<sup>1</sup> Depending on the volume of bacterial culture it may be necessary to repeat Step 1 several times.

<sup>2</sup> Do not allow the lysis reaction to proceed for more than 3 minutes. Excessive lysis can result in denatured plasmid DNA. When processing a large number of samples, work with groups of ≤ 10 at a time.

## Vacuum Protocol:

This product is compatible with any conventional vacuum-based manifold. The vacuum pump should be a single or double-staged unit capable of producing up to 400 mm Hg pressure at the vacuum manifold<sup>1</sup>.

8. Place the **Zymo-Spin™ II-PX Column** onto a vacuum manifold. (If vacuum is not available, see page 7 for the centrifugation protocol.)
9. Add the entire mixture from step 7 into the Zymo-Spin™ II-PX Column. Turn on the vacuum until all of the liquid has passed completely through the column.
10. Add 800 µl of **ZymoPURE™ Wash 1** to the Zymo-Spin™ II-PX Column. Turn on the vacuum until all of the liquid has passed completely through the column.
11. Add 800 µl of **ZymoPURE™ Wash 2** to the Zymo-Spin™ II-PX Column. Turn on the vacuum until all of the liquid has passed completely through the column.
12. Add 200 µl of **ZymoPURE™ Wash 2** to the Zymo-Spin™ II-PX Column. Turn on the vacuum until all of the liquid has passed completely through the column.
13. Place the **Zymo-Spin™ II-PX Column** in a **Collection Tube** and transfer to a microcentrifuge. Centrifuge at  $\geq 10,000 \times g$  for 1 minute in order to remove any residual wash buffer.
14. Transfer the **Zymo-Spin™ II-PX Column** into a clean 1.5 ml tube and add 25 µl of **ZymoPURE™ Elution Buffer**<sup>2,3</sup> directly to the column matrix. Incubate at room temperature for 2 minutes, and then centrifuge at  $\geq 10,000 \times g$  for 1 minute in a microcentrifuge. Store the eluted plasmid DNA at  $\leq -20^{\circ}\text{C}$ .

---

<sup>1</sup> To achieve optimal performance, the vacuum pump should be able to apply at least 400 mm Hg pressure. If less pressure is applied, centrifuge the column prior to washing to remove any residual lysate remaining in the matrix.

<sup>2</sup> The **ZymoPURE™ Elution Buffer** contains 10 mM Tris-HCl, pH 8.5, 0.1 mM EDTA. If required, pure water can also be used to elute the DNA.

<sup>3</sup> The DNA yield can be increased by pre-warming the **Zymo PURE™ Elution Buffer** to 50 °C and/or increasing the incubation period up to 10 minutes prior to centrifugation.



## Centrifugation Protocol:

Perform steps 1-7 as indicated in the general protocol, see page 5.

8. Place a **Zymo-Spin™ II-PX Column** in a Collection Tube.
9. Transfer the entire mixture from step 7 into the Zymo-Spin™ II-PX Column. Incubate the **Zymo-Spin™ II-PX/Collection Tube** assembly at room temperature for 1 minute and then centrifuge at  $\geq 10,000 \times g$  for 1 min. Discard the flow through<sup>1</sup>.
10. Add 800  $\mu$ l of **ZymoPURE™ Wash 1** to the Zymo-Spin™ II-PX Column and centrifuge at  $\geq 10,000 \times g$  for 1 min. Discard the flow through.
11. Add 800  $\mu$ l of **ZymoPURE™ Wash 2** to the Zymo-Spin™ II-PX Column and centrifuge at  $\geq 10,000 \times g$  for 1 min. Discard the flow through.
12. Add 200  $\mu$ l of **ZymoPURE™ Wash 2** to the Zymo-Spin™ II-PX Column and centrifuge at  $\geq 10,000 \times g$  for 1 min. Discard the flow through.
13. Centrifuge the Zymo-Spin™ II-PX Column at  $\geq 10,000 \times g$  for 1 minute in order to remove any residual wash buffer.
14. Transfer the Zymo-Spin™ II-PX Column into a clean 1.5 ml tube and add 25  $\mu$ l of **ZymoPURE™ Elution Buffer**<sup>2,3</sup> directly to the column matrix. Incubate at room temperature for 2 minutes, and then centrifuge at  $\geq 10,000 \times g$  for 1 minute in a microcentrifuge. Store the eluted plasmid DNA at  $\leq -20^{\circ}\text{C}$ .

---

<sup>1</sup>The capacity of the collection tube with the column inserted is 900  $\mu$ l. Empty the collection tube whenever necessary to prevent contamination on the spin-column with the flow-through.

<sup>2</sup>The **ZymoPURE™ Elution Buffer** contains 10 mM Tris-HCl, pH 8.5, 0.1 mM EDTA. If required, pure water can also be used to elute the DNA.

<sup>3</sup>The DNA yield can be increased by pre-warming the **ZymoPURE™ Elution Buffer** to 50 °C and/or increasing the incubation period up to 10 minutes prior to centrifugation.

# Appendices

## Low-Copy Number Protocol

When working with low-copy number plasmid DNA, it is possible to increase plasmid DNA yield by processing up to 10 ml of overnight culture grown in LB using the protocol below. Please be advised that using this protocol will reduce the number of preps that can be performed with this kit because it requires using larger volumes of ZymoPURE P1, P2, P3, and binding buffer.

## Plasmid DNA Purification

The following procedure should be performed at room temperature (15-30°C).

1. Centrifuge up to 10 ml<sup>1</sup> of bacterial culture in a clear 2 ml tube at full speed for 15-20 seconds in a microcentrifuge. Discard supernatant.
2. Add 500 µl of **ZymoPURE™ P1 (Red)** to the bacterial cell pellet and resuspend completely by vortexing or pipetting.
3. Add 500 µl of **ZymoPURE™ P2 (Green)** and immediately mix by gently inverting the tube 8-10 times. Do not vortex! Let sit at room temperature for 3 minutes<sup>2</sup>. *Cells are completely lysed when the solution appears clear, purple, and viscous.*
4. Add 500 µl of **ZymoPURE™ P3 (Yellow)** and mix thoroughly by inversion. Do not vortex! Invert the tube an additional 5 times after the sample turns completely yellow. *The sample will turn yellow when the neutralization is complete, and a yellowish precipitate will form.*
5. Centrifuge the neutralized lysate for 5 minutes at 16,000 x g.
6. Transfer exactly 1,200 µl of supernatant from step 5 into a clean 1.5 ml microcentrifuge tube.
7. Add 520 µl of **ZymoPURE™ Binding Buffer** to the cleared lysate from step 6 and mix thoroughly by vortexing for 15 seconds.

*To continue processing the lysate using the recommended vacuum protocol, proceed to page 6. If a vacuum is not available, proceed to page 7 for an alternative centrifugation method. Step 9 in the vacuum and centrifugation protocol must be performed twice because the volume of the lysate and binding buffer mixture is greater than 900 µl.*

---

<sup>1</sup> Depending on the volume of bacterial culture it may be necessary to repeat Step 1 several times.

<sup>2</sup> Do not allow the lysis reaction to proceed for more than 3 minutes. Excessive lysis can result in denatured plasmid DNA. When processing a large number of samples, work with groups of ≤ 10 at a time.

## Gram-Positive Bacteria Protocol

It is possible to isolate plasmid DNA from Gram-Positive species with the ZymoPURE Miniprep Kit. However, the cell walls of the bacteria must be digested with a lytic enzyme prior to alkaline lysis. The protocol below is for Gram-Positive strains that are sensitive to the lytic enzyme Lysozyme.

### Plasmid DNA Purification

The following procedure should be performed at room temperature (15-30°C).

1. Centrifuge up to 0.5-5 ml<sup>1</sup> of bacterial culture in a clear 1.5 ml tube at full speed for 15-20 seconds in a microcentrifuge. Discard supernatant.
2. Add 250 µl of **ZymoPURE™ P1 (Red)** containing lysozyme<sup>2</sup> at a final concentration of 1 mg/ml to the bacterial cell pellet and resuspend completely by vortexing or pipetting.
3. Incubate the resuspended cell pellet at 37°C for 15-60 minutes<sup>3</sup>.
4. Add 250 µl of **ZymoPURE™ P2 (Green)** and immediately mix by gently inverting the tube 8-10 times. Do not vortex! Let sit at room temperature for 3 minutes<sup>4</sup>. *Cells are completely lysed when the solution appears clear, purple, and viscous.*
5. Add 250 µl of **ZymoPURE™ P3 (Yellow)** and mix thoroughly by inversion. Do not vortex! Invert the tube an additional 5 times after the sample turns completely yellow. *The sample will turn yellow when the neutralization is complete, and a yellowish precipitate will form.*
6. Centrifuge the neutralized lysate for 5 minutes at 16,000 x g.
7. Transfer exactly 600 µl of supernatant from step 5 into a clean 1.5 ml microcentrifuge tube.
8. Add 260 µl of **ZymoPURE™ Binding Buffer** to the cleared lysate from step 6 and mix thoroughly by vortexing for 15 seconds.

*To continue processing the lysate using the recommended vacuum protocol, proceed to page 6. If a vacuum is not available, proceed to page 7 for an alternative centrifugation method.*

---

<sup>1</sup> Depending on the volume of bacterial culture it may be necessary to repeat Step 1 several times.

<sup>2</sup> Lytic enzymes other than lysozyme will require optimization and validation in the ZymoPURE P1 buffer prior to use.

<sup>3</sup> Incubation times will vary depending on the cell density and age of cells. Harvesting the cells at early log phase is recommended for optimal cell wall digestion.

<sup>4</sup> Do not allow the lysis reaction to proceed for more than 3 minutes. Excessive lysis can result in denatured plasmid DNA. When processing a large number of samples, work with groups of ≤ 10 at a time.

# Troubleshooting

## Problem

## Possible Causes and Suggested Solutions

**Poor aeration of culture.** The optimal culture volume to air volume ratio is 1:5 or less. For best aeration, use baffled culture flasks, or a vented or gas-permeable seal on the culture vessel.

**The culture was overgrown, undergrown, contaminated, or antibiotics were omitted from the growth medium.** Use a fresh culture for optimal performance. An OD<sub>600</sub> of 0.2-0.35 is the optimal optical density of a tenfold dilution of the culture.

**Too much culture used.** Lysis and neutralization will be incomplete resulting in poor lysate clarification. More culture does not always equal more plasmid. Incomplete lysis and neutralization are two of the most common causes of failed plasmid preps and both are caused by too much culture being used.

## Low DNA Yield

**Incomplete neutralization:** The solution should not be viscous following neutralization and the yellowish precipitate should appear fluffy and readily float to the surface. Make sure the neutralization is complete prior to centrifugation. Invert the tube an additional 3-4 times after the sample turns yellow following the addition of ZymoPURE™ P3.

**ZymoPURE P2 and/or ZymoPURE Binding Buffer may have precipitated during shipping.** To completely resuspend the buffers, incubate the bottles at 30-37 °C for 10 minutes and mix by inversion. DO NOT MICROWAVE.

**Less than 600 µl of supernatant was recovered after pelleting the lysate debris.** The ratio of binding buffer to lysate is critical for optimal performance and plasmid DNA yield will be significantly reduced if less than 600 µl of clarified lysate is used.

## Problem

## Possible Causes and Suggested Solutions

### Low DNA Yield

**ZymoPURE Wash 2:** Ensure that the correct volume of ethanol was added to the ZymoPURE™ Wash 2 prior to use. Also, ensure that the bottle cap is screwed on tightly after each use to prevent evaporation of the ethanol.

**Incomplete elution:** For large size plasmids (> 10 kb), add ZymoPURE™ Elution Buffer and incubate the column for 5-10 minutes before centrifugation. Also, pre-warm the ZymoPURE™ Elution Buffer to 50 °C prior to elution.

### Low DNA Quality

**Incomplete neutralization:** Incomplete neutralization generates poor quality supernatant. Ensure that neutralization is complete by inverting the sample an additional 3-4 times after the sample turns yellow following the addition of ZymoPURE™ P3.

**Insufficient centrifugation:** Make sure that all centrifugation steps are performed at the indicated speed and time. If a lower centrifuge speed is used, then extend the centrifugation time to compensate.

### RNA in eluate

Ensure that ZymoPURE™ P1 has been stored at 4°C. RNase A can be purchased separately if necessary.

### Genomic DNA in eluate

**Improper handling:** Sample was vortexed or handled too roughly. Genomic DNA contamination is usually caused by excessive mechanical shearing during the lysis and neutralization steps. Also, incomplete lysis or neutralization may contribute to genomic DNA contamination in your eluate.

**Overgrown culture.** Overgrown or old cultures may contain more genomic DNA contamination than fresh cultures.

# Ordering Information

| Product Description            | Catalog No. | Size       |
|--------------------------------|-------------|------------|
| ZymoPURE™ Plasmid Miniprep Kit | D4208T      | 10 Preps.  |
|                                | D4209       | 50 Preps.  |
|                                | D4210       | 100 Preps. |
|                                | D4211       | 400 Preps. |
|                                | D4212       | 800 Preps. |

| Individual Kit Components      | Catalog No. | Amount      |
|--------------------------------|-------------|-------------|
| ZymoPURE™ P1 (Red)             | 3 ml        | D4200-1-3   |
|                                | 13 ml       | D4200-1-13  |
|                                | 100 ml      | D4200-1-100 |
|                                | 210 ml      | D4200-1-210 |
| ZymoPURE™ P2 (Green)           | 3 ml        | D4200-2-3   |
|                                | 13 ml       | D4200-2-13  |
|                                | 100 ml      | D4200-2-100 |
|                                | 210 ml      | D4200-2-210 |
| ZymoPURE™ P3 (Yellow)          | 3 ml        | D4200-3-3   |
|                                | 13 ml       | D4200-3-13  |
|                                | 100 ml      | D4200-3-100 |
|                                | 210 ml      | D4200-3-210 |
| ZymoPURE™ Binding Buffer       | 3 ml        | D4200-4-3   |
|                                | 13 ml       | D4200-4-13  |
|                                | 100 ml      | D4200-4-100 |
|                                | 210 ml      | D4200-4-210 |
| ZymoPURE™ Wash 1               | 20 ml       | D4200-5-20  |
|                                | 55 ml       | D4200-5-55  |
|                                | 320 ml      | D4200-5-320 |
|                                | 420 ml      | D4200-5-420 |
| ZymoPURE™ Wash 2 (Concentrate) | 10 ml       | D4200-6-10  |
|                                | 12 ml       | D4200-6-12  |
|                                | 23 ml       | D4200-6-23  |
|                                | 28 ml       | D4200-6-28  |
| ZymoPURE™ Elution Buffer       | 6 ml        | D4200-7-6   |
|                                | 12 ml       | D4200-7-12  |
|                                | 30 ml       | D4200-7-30  |
| Zymo-Spin™ II-PX               | 50          | C1086-50    |
| Collection Tubes               | 50          | C1001-50    |
|                                | 500         | C1001-500   |
|                                | 1000        | C1001-1000  |

# Complete Your Cloning Workflow

## ✓ 20 Minute Midi & Maxipreps

| ZymoPURE™ Plasmid Prep Kits       | Size                   | Catalog No.    |
|-----------------------------------|------------------------|----------------|
| ZymoPURE™ II Plasmid Midiprep Kit | 25 Preps.<br>50 Preps. | D4200<br>D4201 |
| ZymoPURE™ II Plasmid Maxiprep Kit | 10 Preps.<br>20 Preps. | D4202<br>D4203 |
| ZymoPURE™ II Plasmid Gigaprep Kit | 5 Preps.               | D4204          |

## ✓ Simple 20 second High Efficiency Transformations

| Mix & Go! Competent Cells | Size   | Catalog No.             |
|---------------------------|--|-------------------------|
| DH5α                      | 10 x 100 µl aliquots<br>96 x 50 µl aliquots<br>96 x 50 µl aliquots PCR Plate | T3007<br>T3009<br>T3010 |
| JM109                     | 10 x 100 µl aliquots<br>96 x 50 µl aliquots                                  | T3019<br>T3020          |
| Zymo10B                   | 10 x 100 µl aliquots<br>96 x 50 µl aliquots                                  | T3003<br>T3005          |
| HB101                     | 10 x 100 µl aliquots<br>96 x 50 µl aliquots                                  | T3011<br>T3013          |
| C600                      | 10 x 100 µl aliquots   | T3015                   |
| TG1                       | 10 x 100 µl aliquots   | T3017                   |

## ✓ Recover ultra-pure highly concentrated DNA from PCR & other sources

| DNA Clean & Concentrator™            | Size                           | Catalog No.    |
|--------------------------------------|--------------------------------|----------------|
| DNA Clean & Concentrator™-5          | 50 Preps.<br>200 Preps.        | D4003<br>D4004 |
| ZR-96 DNA Clean-Up Kit™              | 2 x 96 Preps.<br>4 x 96 Preps. | D4017<br>D4018 |
| Genomic DNA Clean & Concentrator™-10 | 25 Preps.<br>100 Preps.        | D4010<br>D4011 |

## ✓ Rapid extraction of ultra-pure DNA from agarose gels

| Zymoclean Gel DNA Recovery™                | Size                           | Catalog No.    |
|--|--------------------------------|----------------|
| Zymoclean™ Gel DNA Recovery Kit            | 50 Preps.<br>200 Preps.        | D4001<br>D4002 |
| Zymoclean™ Large Fragment DNA Recovery Kit | 2 x 96 Preps.<br>4 x 96 Preps. | D4045<br>D4046 |







**100% satisfaction guarantee on all Zymo Research products,  
or your money back.**

Zymo Research is committed to simplifying your research with quality products and services. If you are dissatisfied with this product for any reason, please call 1(888) 882-9682.

---

Integrity of kit components is guaranteed for up to one year from date of purchase. Reagents are routinely tested on a lot-to-lot basis to ensure they provide the highest performance and reliability.

This product is for research use only and should only be used by trained professionals. It is not for use in diagnostic procedures. Some reagents included with this kit are irritants. Wear protective gloves and eye protection. Follow the safety guidelines and rules enacted by your research institution or facility.

™ Trademarks of Zymo Research Corporation



ZYMO RESEARCH

The **BEAUTY** of **SCIENCE** is to Make Things **SIMPLE**®



[tech@zymoresearch.com](mailto:tech@zymoresearch.com)



[www.zymoresearch.com](http://www.zymoresearch.com)



Toll Free: (888) 882-9682