

MicroElute® Cycle-Pure & Gel Extraction Kit

D6294-00	5 preps
D6294-01	50 preps
D6294-02	200 preps

Manual Date: January 2024
Revision Number: v1.0

For Research Use Only



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MicroElute® Cycle Pure & Gel Extraction Kit

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Intended Use

For professional research use.

The E.Z.N.A.® MicroElute® Cycle-Pure & Gel Extraction Kit is intended to purify PCR samples or DNA fragments from agarose gels with an elution volume between 10-20 µL.

Intended User

The E.Z.N.A.® MicroElute® Cycle-Pure & Gel Extraction Kit is intended for professional use and to be used by or under the supervision of professional users, such as laboratory personnel, technicians, researchers and physicians specifically instructed and trained in molecular biology techniques.

Product Description

The E.Z.N.A.® family of products is an innovative system that radically simplifies the extraction and purification of nucleic acids from a variety of sources. The key to this system is the HiBind® matrix that specifically, but reversibly, binds DNA or RNA under optimized conditions allowing proteins and other contaminants to be removed. Nucleic acids are easily eluted with deionized water or a low salt buffer.

The MicroElute® Clean Up system, designed for rapid DNA clean up, includes:

- MicroElute® Cycle-Pure - for direct purification of double or single stranded PCR products (100 bp - 10 kb) from amplification reactions
- MicroElute® Gel Extraction - for extraction of DNA fragments from standard, or low-melt agarose gels in TAE (Tris-acetate/EDTA) or TBE (Tris-borate/EDTA) buffer

Binding Capacity:

Each MicroElute® LE DNA Column can bind ~10 µg of DNA.

New in this Edition:

January 2024:

- In the newest version of this kit, the E.Z.N.A.® MicroElute® Cycle-Pure Kit (D6293) and E.Z.N.A.® MicroElute® Gel Extraction Kit (D6294) have merged.
- DNA Wash Buffer has been replaced with SPW Buffer.

Kit Contents

Product	D6294-00	D6294-01	D6294-02
Purifications	5	50	200
MicroElute® LE DNA Columns	5	50	200
2 mL Collection Tubes	5	50	200
CP Buffer	5 mL	30 mL	120 mL
XP2 Binding Buffer	5 mL	30 mL	120 mL
SPW Buffer	2.5 mL	25 mL	3 x 25 mL
Elution Buffer	2 mL	30 mL	30 mL
User Manual	✓	✓	✓

Preparing Reagents

- Dilute SPW Buffer with 100% ethanol as follows and store at room temperature.

Kit	100% Ethanol to be Added
D6294-00	10 mL
D6294-01	100 mL
D6294-02	100 mL per bottle

Storage and Stability

All of the MicroElute® Kit components are guaranteed for at least 12 months from the date of purchase when stored at room temperature and away from bright light. During shipment or storage in cool ambient conditions, precipitates may form in some buffers. Dissolve such deposits by warming the solution at 37°C and gently shaking.

Warnings

This kit is for research use only.

Please read all instructions carefully before using the kit.

Decontaminate and dispose of all potentially infectious materials in accordance with applicable local, state, and national regulations. Please refer to safety data sheets (SDSs) for information on disposal of different components included in this kit.




Safety Information

All chemicals and biological materials are potentially hazardous. Biological samples such as plasma, serum, tissues, body fluids, blood etc. are potentially infectious and must be treated as biohazardous materials. Conduct all work in properly equipped facilities following universal precautions and using appropriate personal safety equipment such as disposable gloves, lab coats, safety glasses etc. as required by policies and procedures outlined by your facility. Please refer to safety data sheets (SDSs) for information on safe handling, transport and disposal of different components included in this kit. SDSs are made available in PDF format on the product page at www.omegabiotek.com. Discard all waste in accordance with the local safety regulations.

Some of the buffers included in the product contain guanidine-based chaotropic agents, which can form highly reactive compounds when combined with bleach. **DO NOT add bleach or acidic solutions to guanidine-containing waste.** Please access the SDSs online for detailed information on the reagents.

Precautions

Some of the buffers included in the E.Z.N.A.® MicroElute® Cycle-Pure & Gel Extraction Kit contain guanidine-based chaotropic agents, which can form highly reactive compounds when combined with bleach. **DO NOT add bleach or acidic solutions** to guanidine containing sample-preparation waste. Please access the SDSs online for detailed information on the reagents.

Component	Description
RNase A 	Contains: Ribonuclease A. Danger! Causes an allergic skin irritation. May cause allergy or asthma symptoms or breathing difficulties if inhaled. Avoid breathing dust/fume/gas/mist/vapors/spray. Wear protective gloves/protective clothing/eye protection/face protection. Wear respiratory protection in case of inadequate ventilation. Contaminated work clothing must not be allowed out of the workplace. INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a poison center/doctor/physician/first aider if experience respiratory symptoms. ON SKIN: Wash with plenty of water. Get medical attention if skin irritation or rash occurs. Take off contaminated clothing and wash it before reuse.
CP Buffer  	Contains: Guanidine hydrochloride and isopropanol. Warning! Flammable liquid and vapour. Causes serious eye irritation. Harmful if swallowed. Causes skin irritation. May cause drowsiness or dizziness. Keep away from ignition sources. Use in a well ventilated area. Do not eat, drink or smoke when using this product. Avoid breathing mist/vapours/spray. Wear protective gloves/protective clothing/eye protection/face protection. In case of fire: Use alcohol resistant foam or normal protein foam to extinguish. INHALED: Remove person to fresh air and keep comfortable for breathing. IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Get medical advice/attention if eye irritation persists. ON SKIN: Wash with plenty of water and soap. Get medical advice/attention if skin irritation occurs. SWALLOWED: Rinse mouth. Call a poison center or doctor/physician if you feel unwell.

Precautions

Component	Description
XP2 Binding Buffer	Contains: Guanidine thiocyanate. Danger! Harmful if swallowed. Causes an allergic skin irritation. May cause allergy or asthma symptoms or breathing difficulties if inhaled. Causes severe skin burns and eye damage. Avoid breathing dust/fume/gas/mist/vapors/spray. Wear protective gloves/protective clothing/eye protection/face protection. Contaminated work clothing must not be allowed out of the workplace. INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a poison center/doctor/physician/first aider if experience respiratory symptoms. ON SKIN: Wash with plenty of water. Get medical attention if skin irritation or rash occurs. Take off contaminated clothing and wash it before reuse. SWALLOWED: Rinse mouth. Do NOT induce vomiting. Immediately call a poison center or doctor/physician.



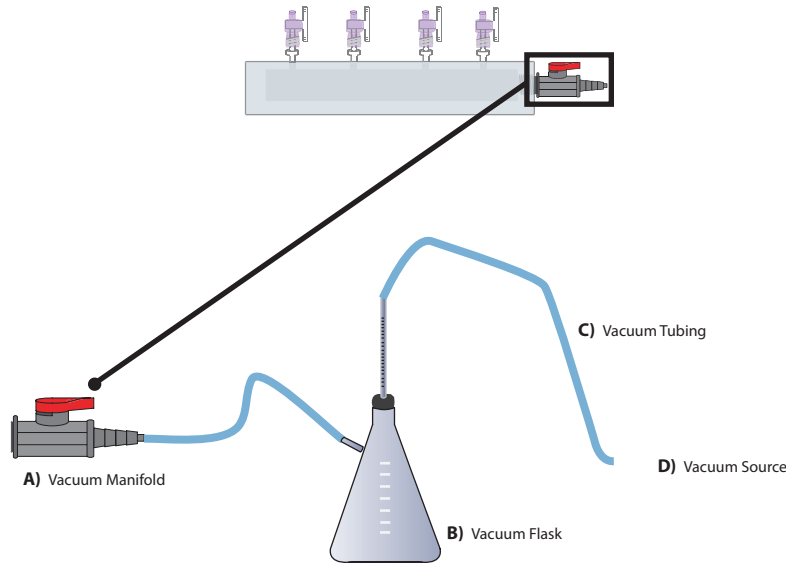
Guidelines for Vacuum Manifold

The following is required for use with the Vacuum/Spin Protocol:

- A) Vacuum Manifold
Other Compatible Vacuum Manifolds: Qiagen QIAvac24, Sigma Aldrich VM20, Promega Vacman®, or manifold with standard Luer connector
- B) Vacuum Flask
- C) Vacuum Tubing
- D) Vacuum Source (review tables below for pressure settings)

Conversion from millibars:	Multiply by:
Millimeters of mercury (mmHg)	0.75
Kilopascals (kPa)	0.1
Inches of mercury (inch Hg)	0.0295
Torrs (Torr)	0.75
Atmospheres (atmos)	0.000987
Pounds per Square Inch (psi)	0.0145

Vacuum Setup:



MicroElute® Cycle-Pure & Gel Extraction Kit Protocols

MicroElute® Cycle-Pure - Centrifugation Protocol

Materials and Equipment to be Supplied by User:

- Microcentrifuge capable of at least 13,000g
- Vortexer
- 1.5 mL microcentrifuge tubes
- 100% ethanol
- 3M NaOH
- Sterile deionized water
- For fragments < 200 bp: 100% isopropanol

Before Starting:

- Prepare SPW Buffer according to “Preparing Reagents” section on Page 5.
1. Perform agarose gel/ethidium bromide electrophoresis to analyze PCR product.
 2. Determine the volume of your PCR reaction.
 3. Transfer the sample into a clean 1.5 mL microcentrifuge tube.
 4. Add 5 volumes CP Buffer. For fragments < 200 bp, add 5 volumes CP Buffer and 0.4 volumes 100% isopropanol.

Note: Volume refers to the size of your PCR reaction. For example, if your PCR reaction is 50 µL, you would use 250 µL CP Buffer. If fragments are less than 200 bp, then add 250 µL CP Buffer and 20 µL 100% isopropanol.
 5. Vortex to mix thoroughly. Briefly centrifuge to collect any drops from the inside of the lid.

MicroElute® Cycle-Pure & Gel Extraction Kit Protocols

6. Insert a MicroElute® LE DNA Column into a 2 mL collection tube and follow the column equilibration steps listed below:

Protocol for Column Equilibration:

1. Add 100 µL 3M NaOH to the MicroElute® LE DNA Column.
2. Centrifuge at 10,000*g* for 30 seconds.
3. Add 500 µL sterile deionized water to the MicroElute® LE DNA Column.
4. Centrifuge at 10,000*g* for 30 seconds.
5. Discard the filtrate and reuse the collection tube.
7. Transfer the sample from Step 5 to the MicroElute® LE DNA Column.
8. Centrifuge at maximum speed ($\geq 13,000g$) for 1 minute at room temperature.
9. Discard the filtrate and reuse collection tube.
10. Add 700 µL SPW Buffer.
Note: SPW Buffer must be diluted with 100% ethanol before use. Please see the Preparing Reagents section on Page 5 for instructions.
11. Centrifuge at maximum speed for 1 minute.
12. Discard the filtrate and reuse collection tube.
13. Repeat Steps 10-12 for a second SPW Buffer step.
14. Centrifuge the empty MicroElute® LE DNA Column at maximum speed for 2 minutes to dry the column.
Note: This step is critical for removal of trace ethanol that may interfere with downstream applications.
15. Transfer the MicroElute® LE DNA Column into a clean 1.5 mL microcentrifuge tube (not provided).

MicroElute[®] Cycle-Pure & Gel Extraction Kit Protocols

16. Add 10-20 μ L Elution Buffer, TE Buffer, or sterile deionized water directly to the center of column matrix.
17. Let sit at room temperature for 2 minutes.
18. Centrifuge at maximum speed for 1 minute.

Note: This represents approximately 80-90% of bound DNA. An optional second elution will yield any residual DNA, though at a lower concentration.
19. Store DNA at -20°C.

MicroElute® Cycle Pure - Vacuum Protocol

Materials and Equipment to be Supplied by User:

- Vacuum Manifold
- Microcentrifuge capable of at least 13,000g
- Nuclease-free 1.5 mL microcentrifuge tubes
- 100% ethanol
- 3M NaOH
- Sterile deionized water
- For fragments < 200 bp: 100% isopropanol

Before Starting:

- Prepare SPW Buffer according to the “Preparing Reagents” section on Page 5.
1. Perform agarose gel/ethidium bromide electrophoresis to analyze PCR product.
 2. Determine the volume of your PCR reaction.
 3. Transfer the sample into a clean 1.5 mL microcentrifuge tube.
 4. Add 5 volumes CP Buffer. For fragments < 200 bp, add 5 volumes CP Buffer and 0.4 volumes 100% isopropanol.

Note: Volume refers to the size of your PCR reaction. For example, if your PCR reaction is 50 µL, you would use 250 µL CP Buffer. If fragments are less than 200 bp, then add 250 µL CP Buffer and 20 µL 100% isopropanol.

5. Vortex to mix thoroughly. Briefly centrifuge to collect any drops from the inside of the lid.

MicroElute® Cycle-Pure & Gel Extraction Kit Protocols

6. Prepare the vacuum manifold according to manufacturer's instructions. Connect the MicroElute® LE DNA Column to the manifold and follow the column equilibration steps listed below:

Protocol for Column Equilibration:

1. Add 100 μ L 3M NaOH to the MicroElute® LE DNA Column.
 2. Switch on vacuum source to draw the buffer through the column.
 3. Turn off the vacuum.
 4. Add 500 μ L sterile deionized water to the MicroElute® LE DNA Column.
 5. Switch on vacuum source to draw the water through the column.
 6. Turn off the vacuum.
-
7. Transfer the entire sample from Step 5 to the MicroElute® LE DNA Column.
 8. Switch on vacuum source to draw the sample through the column.
 9. Turn off the vacuum.
 10. Add 700 μ L SPW Buffer.

Note: SPW Buffer must be diluted with 100% ethanol before use. Please see the Preparing Reagents section on Page 5 for instructions.
 11. Switch on vacuum source to draw the SPW Buffer through the column.
 12. Turn off the vacuum.
 13. Repeat Steps 10-12 for a second SPW Buffer step.
 14. Transfer the MicroElute® LE DNA Column into a 2 mL collection tube.
 15. Centrifuge the empty MicroElute® LE DNA Column at maximum speed for 2 minutes to dry the column.

Note: This step is critical for removal of trace ethanol that may interfere with downstream applications.

MicroElute® Cycle-Pure & Gel Extraction Kit Protocols

16. Transfer the MicroElute® LE DNA Column into a clean 1.5 mL microcentrifuge tube (not provided).
17. Add 10-20 μ L Elution Buffer, TE Buffer, or sterile deionized water directly to the center of column matrix.
18. Let sit at room temperature for 2 minutes.
19. Centrifuge at maximum speed for 1 minute.

Note: This represents approximately 80-90% of bound DNA. An optional second elution will yield any residual DNA, though at a lower concentration.

20. Store DNA at -20°C.

MicroElute® Cycle-Pure & Gel Extraction Kit Protocols

MicroElute® Gel Extraction - Centrifugation Protocol

Materials and Equipment to be Supplied by User:

- Microcentrifuge capable of at least 13,000g
- Incubator capable of 55°C
- Vortexer
- 1.5 mL microcentrifuge tubes
- 100% ethanol
- 3M NaOH
- Sterile deionized water

Before Starting:

- Prepare SPW Buffer according to “Preparing Reagents” section on Page 5.
1. Perform agarose gel/ethidium bromide electrophoresis to fractionate DNA fragments. Any type or grade of agarose may be used. However, it is strongly recommended that fresh TAE buffer or TBE buffer be used as running buffer. Do not reuse running buffer as its pH will increase and reduce yields.
 2. When adequate separation of bands has occurred, carefully excise the DNA fragment of interest using a wide, clean, sharp scalpel. Minimize the size of the gel slice by removing extra agarose.
 3. Determine the appropriate volume of the gel slice by weighing it in a clean 1.5 mL microcentrifuge tube. Assuming a density of 1 g/mL, the volume of gel is derived as follows: a gel slice of mass 0.3 g will have a volume of 0.3 mL.
 4. Add 1 volume XP2 Binding Buffer.
 5. Incubate at 60°C for 7 minutes or until the gel has completely melted. Vortex or shake the tube every 2-3 minutes.

Important: Monitor the pH of the Gel/Binding Buffer mixture after the gel has completely dissolved. DNA yields will significantly decrease when the pH > 8.0. If the color of the mixture becomes orange or red, add 5 µL 5M sodium acetate (pH 5.2) to bring the pH down. After this adjustment, the color of the Gel/Binding Buffer mixture should be light yellow.

MicroElute® Cycle-Pure & Gel Extraction Kit Protocols

6. Insert a MicroElute® LE DNA Column in a 2 mL collection tube and follow the column equilibration steps listed below:

Protocol for Column Equilibration:

1. Add 100 μ L 3M NaOH to the MicroElute® LE DNA Column.
 2. Centrifuge at 10,000g for 30 seconds.
 3. Add 500 μ L sterile deionized water to the MicroElute® LE DNA Column.
 4. Centrifuge at 10,000g for 30 seconds.
 5. Discard the filtrate and reuse the collection tube.
-
7. Transfer no more than 700 μ L DNA/agarose solution from Step 5 to the MicroElute® LE DNA Column.

Note: Each MicroElute® LE DNA Column has a total capacity of 10 μ g DNA. If the expected yield is larger, divide the sample into the appropriate number of columns.
-
8. Centrifuge at 10,000g for 1 minute at room temperature.
 9. Discard the filtrate and reuse collection tube.
 10. Repeat Steps 7-9 until all of the sample has been transferred to the column.
 11. Add 300 μ L XP2 Binding Buffer.
 12. Centrifuge at maximum speed ($\geq 13,000g$) for 30 seconds at room temperature.
 13. Discard the filtrate and reuse collection tube.
 14. Add 700 μ L SPW Buffer.

Note: SPW Buffer must be diluted with 100% ethanol prior to use. Please see Page 5 for instructions.

MicroElute® Cycle-Pure & Gel Extraction Kit Protocols

15. Centrifuge at maximum speed for 1 minute at room temperature.

16. Discard the filtrate and reuse collection tube.

Optional: Repeat Steps 14-16 for a second SPW Buffer step. Perform the second wash step for any salt sensitive downstream applications.

17. Centrifuge the empty MicroElute® LE DNA Column for 2 minutes at maximum speed to dry the column matrix.

Note: It is important to dry the MicroElute® LE DNA Column matrix before elution. Residual ethanol may interfere with downstream applications.

18. Transfer the MicroElute® LE DNA Column to a clean 1.5 mL microcentrifuge tube.

19. Add 10-20 µL Elution Buffer or sterile deionized water directly to the center of the column membrane.

Note: The efficiency of eluting DNA from the MicroElute® LE DNA Column is dependent on pH. If eluting DNA with sterile deionized water, make sure that the pH is around 8.5.

20. Let sit at room temperature for 2 minutes.

21. Centrifuge at maximum speed for 1 minute.

Note: This represents approximately 70% of bound DNA. An optional second elution will yield any residual DNA, though at a lower concentration.

22. Store DNA at -20°C.

MicroElute® Gel Extraction - Vacuum Protocol

Materials and Equipment to be Supplied by User:

- Vacuum Manifold
- Microcentrifuge capable of at least 13,000g
- Incubator capable of 55°C
- Vortexer
- 1.5 mL microcentrifuge tubes
- 100% ethanol
- 3M NaOH
- Sterile deionized water

Before Starting:

- Prepare SPW Buffer according to “Preparing Reagents” section on page 5.
1. Perform agarose gel/ethidium bromide electrophoresis to fractionate DNA fragments. Any type or grade of agarose may be used. However, it is strongly recommended that fresh TAE buffer or TBE buffer be used as running buffer. Do not reuse running buffer as its pH will increase and reduce yields.
 2. When adequate separation of bands has occurred, carefully excise the DNA fragment of interest using a wide, clean, sharp scalpel. Minimize the size of the gel slice by removing extra agarose.
 3. Determine the appropriate volume of the gel slice by weighing it in a clean 1.5 mL microcentrifuge tube. Assuming a density of 1 g/mL, the volume of gel is derived as follows: a gel slice of mass 0.3 g will have a volume of 0.3 mL.
 4. Add 1 volume XP2 Binding Buffer.
 5. Incubate at 60°C for 7 minutes or until the gel has completely melted. Vortex or shake the tube every 2-3 minutes.

MicroElute® Cycle-Pure & Gel Extraction Kit Protocols

Important: Monitor the pH of the Gel/Binding Buffer mixture after the gel has completely dissolved. DNA yields will significantly decrease when the pH > 8.0. If the color of the mixture becomes orange or red, add 5 µL 5M sodium acetate (pH 5.2) to bring the pH down. After this adjustment, the color of the Gel/Binding Buffer mixture should be light yellow.

6. Prepare the vacuum manifold according to manufacturer's instructions.
7. Connect the MicroElute® LE DNA Column to the vacuum manifold and follow the column equilibration steps listed below:

Protocol for Column Equilibration:

1. Add 100 µL 3M NaOH to the MicroElute® LE DNA Column.
2. Switch on vacuum source to draw the buffer through the column.
3. Turn off the vacuum.
4. Add 500 µL sterile deionized water to the MicroElute® LE DNA Column.
5. Switch on vacuum source to draw the water through the column.
6. Turn off the vacuum.
8. Add no more than 700 µL DNA/agarose solution from Step 5 to the MicroElute® LE DNA Column.
9. Turn on the vacuum source to draw the sample through the column.
10. Turn off the vacuum.
11. Repeat Steps 8-10 until all of the sample has been transferred to the column.
12. Add 300 µL XP2 Binding Buffer.
13. Turn on the vacuum source to draw the sample through the column.
14. Turn off the vacuum.

MicroElute® Cycle-Pure & Gel Extraction Kit Protocols

15. Add 700 µL SPW Buffer.

Note: SPW Buffer must be diluted with 100% ethanol prior to use. Please see Page 5 for instructions.

16. Turn on the vacuum source to draw the sample through the column.

17. Turn off the vacuum.

18. Repeat Steps 15-17 for a second SPW Buffer step.

19. Transfer the MicroElute® LE DNA Column to a clean 1.5 mL microcentrifuge tube.

20. Centrifuge the empty MicroElute® LE DNA Column for 2 minutes at maximum speed to dry the column matrix.

Note: It is important to dry the MicroElute® LE DNA Column matrix before elution. Residual ethanol may interfere with downstream applications.

21. Transfer the MicroElute® LE DNA Column to a clean 1.5 mL microcentrifuge tube.

22. Add 10-20 µL Elution Buffer or sterile deionized water directly to the center of the column membrane.

Note: The efficiency of eluting DNA from the MicroElute® LE DNA Column is dependent on pH. If eluting DNA with sterile deionized water, make sure that the pH is around 8.5.

23. Let sit at room temperature for 2 minutes.

24. Centrifuge at maximum speed for 1 minute.

Note: This represents approximately 70% of bound DNA. An optional second elution will yield any residual DNA, though at a lower concentration.

25. Store DNA at -20°C.


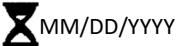










Troubleshooting Guide

Please use this guide to troubleshoot any problems that may arise. For further assistance, please contact the technical support staff, toll free, at **1-800-832-8896**.

Problem	Cause	Solution
Low DNA Yields	Not enough CP Buffer added to sample	Add more CP Buffer as indicated. For DNA fragments < 200 bp in size, add up to 6 volumes CP Buffer.
	pH of the sample mixture is too high	Add 10-20 µL sodium acetate (pH 5.2) to the sample and mix.
	Column Equilibration not performed	Perform the column equilibration protocol as instructed in the manual for consistent results.
Problem	Cause	Solution
Clogged Column in Gel Extraction	Incompletely dissolved gel	<ul style="list-style-type: none"> • Increase incubation time. • Increase XP2 Binding Buffer volume.
No DNA Eluted	SPW Buffer was not diluted with ethanol	Prepare SPW Buffer as instructed on Page 5.
Optical densities do not agree with DNA yield on agarose gel	Trace contaminants eluted from column increase A 260	Wash column as instructed. Alternatively, rely on agarose gel/ethidium bromide electrophoresis for quantification.
DNA sample floats out of well while loading agarose gel	Ethanol not removed completely from column following wash steps	Centrifuge column as instructed to dry before proceeding to elution.

Symbols

The following symbols may appear in the instructions for use or on the packaging and labeling:

Picture	Description
	No additional hazards or not classified as hazardous according to GHS
	Use-by date
	Check components for storage conditions.
	Lot number
	Manufacturer
	Website
	Telephone
	Fax
	Email
	LinkedIn
	Twitter
	Facebook

Notes:

For more purification solutions, visit www.omegabiotek.com

AVAILABLE FORMATS



Spin Columns



96-Well
Silica Plates



Mag Beads

SAMPLE TYPES



Blood / Plasma



Plasmid



Cultured Cells



Plant & Soil



NGS Clean Up



Tissue



FFPE



Fecal Matter



innovations in nucleic acid isolation



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