

Product Manual

Mag-Bind® cfDNA Kit

M3298-00	5 preps		
M3298-01	50 preps		
M3298-02	200 Preps		

Manual Date: January 2021 Revision Number: v8.0

For Research Use Only

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Mag-Bind[®] cfDNA Kit

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Introduction

The Mag-Bind[®] cfDNA Kit is designed for rapid and reliable isolation of circulating DNA from 1-4 mL plasma/serum samples. The Mag-Bind[®] cfDNA Kit can be processed manually with 15 mL centrifuge tubes or on automated platforms with appropriate plasticware. The procedure eliminates the need for funnels and vacuum steps providing hands-free operation in automated protocols. The uniquely formulated binding buffer from Omega Bio-tek allows for large sample volumes to be processed in automated formats with 4 mL serum or plasma being processed in a 24-well plate. The magnetic properties of the Mag-Bind[®] Particles CH enable fast magnetic separation, especially during steps involving large volumes. The high-binding capability decreases the amount of magnetic particles required thereby reducing the elution volume; up to 4 mL serum or plasma can be eluted in 50 µL.

This system combines the reversible nucleic acid-binding properties of Mag-Bind[®] paramagnetic particles with a unique binding system that targets smaller DNA fragments (150-400 bp) and minimizes binding of larger fragments such as genomic DNA.

If the desired target fragment is <150 bp, please see the Optional Protocol Modifications: Recovery of Smaller Fragment section on Page 5 or consult with your Omega Bio-tek representative for a product that will fit your needs.

The purified DNA is of high quality and is suitable for direct use in most downstream applications, such as qPCR and Next Generation Sequencing.

Important: If automating this procedure on a liquid handler or a magnetic processor, please contact your Omega Bio-tek representative for instrument-specific instructions.

Note: Up to 10 mL sample input volumes can be processed using this kit. Please contact your Omega Bio-tek representative for protocol details

New in this Edition:

January 2021

• Mag-Bind[®] Particles CH used in the extraction has been reduced to mitigate inhibition and improve downstream performance.

June 2020

• GT7 Buffer has been renamed to GT7 Buffer v1.1. The buffer formula has been changed to improve stability.

September 2018

- A protocol modication for fragments smaller than 150 bp has been added.
- GT7 Wash Buffer has been renamed GT7 Buffer. The buffer formula has not changed.
- SPW Wash Buffer has been renamed SPW Buffer. The buffer formula has not changed.

Product	M3298-00	M3298-01	M3298-02
Preps	5	50	200
DS Buffer	1.5 mL	20 mL	80 mL
JSB Buffer	25 mL	225 mL	4 x 220 mL
GT7 Buffer v1.1	11 mL	110mL	2 x 220 mL
SPW Buffer	2.5 mL	25 mL	2 x 50 mL
Elution Buffer	30 mL	250 mL	2 x 250 mL
Proteinase K Solution	350 μL	4 mL	14 mL
Mag-Bind [®] Particles CH	110 μL	1.1 mL	4.4 mL
User Manual	\checkmark	\checkmark	\checkmark

Storage and Stability

All of the Mag-Bind[®] cfDNA Kit components are guaranteed for at least 12 months from the date of purchase when stored as follows. Mag-Bind[®] Particles CH should be stored at 2-8°C for long-term use. Proteinase K Solution can be stored at room temperature for up to 12 months. For long-term storage, store Proteinase K Solution at 2-8°C. Store all other components at room temperature. 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. 1. Dilute SPW Buffer with 100% ethanol as follows and store at room temperature.

Kit	100% Ethanol to be Added		
M3298-00	10 mL		
M3298-01	100 mL		
M3298-02	200 mL per bottle		

2. Shake or vortex the Mag-Bind[®] Particles CH to fully resuspend the particles before use. The particles must be fully suspended during use to ensure proper binding.

Recovery of Smaller Fragments (<150 bp)

The standard protocol can be modified by either addition of supplemental JSB Buffer or by addition of a combination of JSB Buffer and isopropanol depending on the fragment size of interest. Refer to Table 1 and Figure 1 below to determine which protocol to use for recovery of smaller fragments.

Modified Protocol 2 will require additional JSB Buffer that is not provided with this kit. Please contact your Omega Bio-tek representative for details.

Table 1: Additional JSB and Isopropanol for small fragment recovery.

The table below describes the total amount of JSB Buffer and/or 100% isopropanol used for the recovery of desired small fragments. Additional JSB and/or isopropanol volumes are in relation to starting volume of serum/plasma. For example, for Modified Protocol 1 using 1 mL serum/plasma, add 1 mL JSB Buffer and 1 mL 100% isopropanol. Modified Protocol 1 should be used to recover fragments as small as 50 bp; however, decreased yields of fragments >150 bp are observed with this modification compared to the standard protocol.

Protocol	Protocol Recovered Fragment		Total Reagents Used	
Modifications	Size (bp)	JSB Buffer	100% Isopropanol	
Standard Protocol	> 150 bp	1 volume		
Modifed Protocol 1	> 50 bp	1 volume	1 volume	
Modifed Protocol 2	> 75 bp	2 volumes		



Figure 1: Fragment Sizes Recovered with Different Protocols.

Gel image depicting the recovery of short DNA fragments using different protocol modifications. 10 μ L of the eluted DNA was run on a 3% agarose gel for 1 hour at 100V to analyze the size fragments recovered with each of those protocols.

Guidelines for cfDNA Quantification

DNA quantification is typically done by spectrophotometric-based (NanoDrop®) or fluorometric-based methods (Qubit®). Both of these methods are inaccurate when it comes to quantifying circulating, cell-free DNA because cfDNA is usually present in low amounts and these methods are unable to distinguish between cfDNA and high molecular weight cellular genomic DNA. It is important to establish accurate strategies to not only precisely quantify cfDNA but also to draw pertinent conclusions about the extraction efficiency. Some of the strategies that can aid in quantification of cfDNA are elucidated below.

Tape Station or Fragment Analyzer

Fragment size profiling can be used for cfDNA quantification. cfDNA are usually small fragments of DNA with a size distribution peak at ~170 bp. The peak heights and separation on the electropherogram corresponding to cfDNA fragment size and gDNA size can shed light on the relative proportions of each and can help draw conclusions about cfDNA extraction efficiency. The regional analysis functionality offered by the software can further assist in approximating the cfDNA concentration. For example, DNA concentration within the 100-300 bp region where cfDNA is most likely to be present can be quantified using the TapeStation software using this functionality.

qPCR

Quantification based on qPCR analysis is effective if the primers are targeting just the cfDNA fraction and not the gDNA fraction. If not, the primers are going to amplify from both the cfDNA and gDNA fractions present in the eluate skewing the results. For example, use of tumor-specific primers if the cfDNA is tumor-derived can analyze the cfDNA fraction without the gDNA interference. For kit evaluation purposes, using a spike-in such as 200 bp sheared bacterial DNA in plasma/serum along with bacterial specific primers can offer information about the extraction efficiency in terms of actual cfDNA present in the total DNA isolated.

cfDNA integrity analysis

cfDNA integrity analysis is done by real-time PCR of ALU-repeats using two sets of primers to amplify different lengths of DNA fragments (115 bp and 247 bp). ALU sequences are highly abundant in the human genome and amplification of the 115-bp ALU amplicon represents the total amount of DNA fragments (both short and long fragments) whereas the 247-bp ALU amplicon primarily reflects the amount of long DNA fragments. cfDNA integrity can be reported as integrity index, which is calculated as the ratio of ALU247 to ALU115. If the isolated DNA is mainly gDNA, ALU247/ALU115 is expected to be 1. The ratio is between 0 to 1 if short fragments (cfDNA) are present. Typically, the higher the amount of cfDNA in the sample, the higher the integrity index.

Mag-Bind® cfDNA Kit - Protocol for 1 mL Serum/Plasma

Important: If automating this procedure on a liquid handler or a magnetic processor, please contact your Omega Bio-tek representative for instrument-specific instructions.

Materials and Reagents to be Supplied by User:

- 100% ethanol
- Magnetic separation device for 1.5/2.0 mL microcentrifuge tubes
- Incubator capable of 60°C
- Shaker or rocker for Step 8
- Vortexer
- 15 mL centrifuge tubes
- 1.5 mL microcentrifuge tubes compatible with magnetic separation device used
- Optional: microplate for DNA storage

Before Starting:

- Prepare SPW Buffer according to the "Preparing Reagents" section on Page 4.
- Set incubator to 60°C.
- Shake or vortex the Mag-Bind[®] Particles CH to fully resuspend the particles before use.
- Add 500-1000 μL serum/plasma samples to a 15 mL centrifuge tube (not provided). Bring the volume up to 1 mL with Elution Buffer if sample volume is less than 1 mL.
- 2. Add 15 µL Proteinase K Solution.
- 3. Add 67 µL DS Buffer.
- 4. Vortex at maximum speed or pipet up and down to mix thoroughly.
- 5. Incubate at 60°C for 20 minutes. Mix by inverting or shaking every 10 minutes.
- 6. Let sit at room temperature for 10 minutes.

Mag-Bind[®] cfDNA Kit Protocol

Optional: If desired fragment size is <150 bp, refer to Optional Protocol Modifications: Recovery of Smaller Fragments on Page 5 before proceeding to Step 7. Modified Protocol 2 will require additional JSB Buffer that is not provided with this kit. Please contact your Omega Bio-tek representative for details.

- 7. Add 1 mL JSB Buffer. Vortex at maximum speed for 30 seconds or pipet up and down to mix thoroughly.
- 8. Add 5 µL Mag-Bind[®] Particles CH. Invert the sample 10 times or pipet up and down to mix. Let sit for 10 minutes at room temperature with continuous mixing. The samples must be mixed throughout the 10 minute incubation period by shaking or rocking. *Do not vortex at high speeds* as this will cause excess foaming that can reduce yield. The speed of mixing should be set to continuously keep the Mag-Bind[®] Particles CH resuspended in solution.
- 9. Transfer 1 mL lysate to a 1.5 mL microcentrifuge tube (not provided).
- 10. Place the tube on a magnetic separation device to magnetize the Mag-Bind[®] Particles CH. Let sit at room temperature until the Mag-Bind[®] Particles CH are completely cleared from solution.
- 11. Aspirate and discard the cleared supernatant. Do not disturb the Mag-Bind® Particles CH.
- 12. Transfer the remaining lysate from Step 8 to the 1.5 mL microcentrifuge tube used in the previous steps.
- 13. Place the tube on a magnetic separation device to magnetize the Mag-Bind[®] Particles CH. Let sit at room temperature until the Mag-Bind[®] Particles CH are completely cleared from solution.
- 14. Aspirate and discard the cleared supernatant. Do not disturb the Mag-Bind[®] Particles CH.
- 15. Remove the tube containing the Mag-Bind[®] Particles CH from the magnetic separation device.

- 16. Add 500 μL GT7 Buffer v1.1.
- 17. Vortex for 2 minutes to resuspend the Mag-Bind® Particles CH.

Note: Complete resuspension of the Mag-Bind® Particles CH is critical for obtaining good purity.

- Place the tube on the magnetic separation device to magnetize the Mag-Bind® Particles CH. Let sit at room temperature until the Mag-Bind® Particles CH are completely cleared from solution.
- 19. Aspirate and discard the cleared supernatant. Do not disturb the Mag-Bind[®] Particles CH.

Note: GT7 Buffer v1.1 may foam during vortexing. Remove foam from cap then remove supernatant.

- 20. Repeat Steps 15-19 for a second GT7 Buffer v1.1 step.
- 21. Remove the tube containing the Mag-Bind[®] Particles CH from the magnetic separation device.
- 22. Add 500 µL SPW Buffer.

Note: SPW Buffer must be diluted with 100% ethanol prior to use. Please see Page 4 for instructions.

- 23. Vortex for 2 minutes to resuspend the Mag-Bind® Particles CH.
- 24. Place the tube on the magnetic separation device to magnetize the Mag-Bind® Particles CH. Let sit at room temperature until the Mag-Bind® Particles CH are completely cleared from solution.
- 25. Aspirate and discard the cleared supernatant. Do not disturb the Mag-Bind® Particles CH.

- 26. Repeat Steps 21-25 for a second SPW Buffer wash step.
- 27. Remove the tube from the magnetic separation device for approximately 30 seconds.
- 28. Place the tube on the magnetic separation device to magnetize the Mag-Bind® Particles CH.
- 29. Aspirate and discard the residual SPW Buffer.
- 30. Leave the tube on the magnetic separation device for 25 minutes to dry the Mag-Bind[®] Particles CH.
- 31. Remove the tube containing the Mag-Bind[®] Particles CH from the magnetic separation device.
- 32. Add 30-60 µL Elution Buffer.
- 33. Vortex at room temperature for 5 minutes to resuspend the Mag-Bind® Particles CH.
- 34. Place the tube on the magnetic separation device to magnetize the Mag-Bind® Particles CH. Let sit at room temperature until the Mag-Bind® Particles CH are completely cleared from solution.
- 35. Transfer the cleared supernatant containing purified DNA to a 1.5 mL microcentrifuge tube or clean microplate (not provided).
- 36. Store DNA at -20°C.

Mag-Bind® cfDNA Kit - Protocol for 2 mL Serum/Plasma

Important: If automating this procedure on a liquid handler or a magnetic processor, please contact your Omega Bio-tek representative for instrument-specific instructions.

Materials and Reagents to be Supplied by User:

- 100% ethanol
- Magnetic separation device for 15 mL centrifuge tubes and 1.5/2.0 mL microcentrifuge tubes
- Incubator capable of 60°C
- Shaker or rocker for Step 8
- Vortexer
- 15 mL centrifuge tubes compatible with magnetic separation device used
- 1.5 mL microcentrifuge tubes compatible with magnetic separation device used
- Optional: microplate for DNA storage

Before Starting:

- Prepare SPW Buffer according to the "Preparing Reagents" section on Page 4.
- Set incubator to 60°C.
- Shake or vortex the Mag-Bind[®] Particles CH to fully resuspend the particles before use.
- 1. Add up to 2 mL serum/plasma samples to a 15 mL centrifuge tube (not provided). Bring the volume up to 2 mL with Elution Buffer if sample volume is less than 2 mL.
- 2. Add 30 µL Proteinase K Solution.
- 3. Add 135 µL DS Buffer.
- 4. Vortex at maximum speed or pipet up and down to mix thoroughly.
- 5. Incubate at 60°C for 25 minutes. Mix by inverting or shaking every 10 minutes.
- 6. Let sit at room temperature for 10 minutes.

Mag-Bind[®] cfDNA Kit Protocol

Optional: If desired fragment size is <150 bp, refer to Optional Protocol Modifications: Recovery of Smaller Fragments on Page 5 before proceeding to Step 7. Modified Protocol 2 will require additional JSB Buffer that is not provided with this kit. Please contact your Omega Bio-tek representative for details.

- 7. Add 2 mL JSB Buffer. Vortex at maximum speed for 30 seconds or pipet up and down to mix thoroughly.
- 8. Add 10 μL Mag-Bind[®] Particles CH. Invert the sample 10 times or pipet up and down to mix. Let sit for 10 minutes at room temperature with continuous mixing. The samples must be mixed throughout the 10 minute incubation period by shaking or rocking. *Do not vortex at high speeds* as this will cause excess foaming that can reduce yield. The speed of mixing should be set to continuously keep the Mag-Bind[®] Particles CH resuspended in solution.
- Place the tube on a magnetic separation device to magnetize the Mag-Bind® Particles CH. Let sit at room temperature until the Mag-Bind® Particles CH are completely cleared from solution.
- 10. Aspirate and discard the cleared supernatant. Do not disturb the Mag-Bind[®] Particles CH.
- 11. Remove the tube containing the Mag-Bind[®] Particles CH from the magnetic separation device.
- 12. Add 1 mL GT7 Buffer v1.1.
- 13. Vortex for 2 minutes to resuspend the Mag-Bind® Particles CH.

Note: Complete resuspension of the Mag-Bind® Particles CH is critical for obtaining good purity.

14. Transfer the resuspended Mag-Bind Particles CH to a new 1.5 mL centrifuge tube (not provided). Use a magnetic separation device designed for 1.5/2.0 mL tubes for the remaining procedure.

- 15. Place the tube on a magnetic separation device to magnetize the Mag-Bind[®] Particles CH. Let sit at room temperature until the Mag-Bind[®] Particles CH are completely cleared from solution.
- 16. Aspirate and discard the cleared supernatant. Do not disturb the Mag-Bind[®] Particles CH.
- 17. Remove the tube containing the Mag-Bind[®] Particles CH from the magnetic separation device.
- 18. Add another 1 mL GT7 Buffer v1.1.
- 19. Vortex for 2 minutes to resuspend the Mag-Bind® Particles CH.

Note: Complete resuspension of the Mag-Bind[®] Particles CH is critical for obtaining good purity.

- 20. Place the tube on a magnetic separation device to magnetize the Mag-Bind[®] Particles CH. Let sit at room temperature until the Mag-Bind[®] Particles CH are completely cleared from solution.
- 21. Aspirate and discard the cleared supernatant. Do not disturb the Mag-Bind® Particles CH.
- 22. Remove the tube containing the Mag-Bind[®] Particles CH from the magnetic separation device.
- 23. Add 1 mL SPW Buffer.

Note: SPW Buffer must be diluted with 100% ethanol prior to use. Please see Page 4 for instructions.

- 24. Vortex for 2 minutes to resuspend the Mag-Bind® Particles CH.
- 25. Place the tube on the magnetic separation device to magnetize the Mag-Bind[®] Particles CH. Let sit at room temperature until the Mag-Bind[®] Particles CH are completely cleared from solution.

- 26. Aspirate and discard the cleared supernatant. Do not disturb the Mag-Bind[®] Particles CH.
- 27. Repeat Steps 22-26 for a second SPW Buffer wash step.
- 28. Remove the tube from the magnetic separation device for approximately 30 seconds.
- 29. Place the tube on the magnetic separation device to magnetize the Mag-Bind® Particles CH.
- 30. Aspirate and discard the residual SPW Buffer.
- 31. Leave the tube on the magnetic separation device for 25 minutes to dry the Mag-Bind® Particles CH.
- 32. Remove the tube containing the Mag-Bind[®] Particles CH from the magnetic separation device.
- 33. Add 50-100 µL Elution Buffer.
- 34. Vortex at room temperature for 5 minutes to resuspend the Mag-Bind® Particles CH.
- 35. Place the tube on the magnetic separation device to magnetize the Mag-Bind® Particles CH. Let sit at room temperature until the Mag-Bind® Particles CH are completely cleared from solution.
- 36. Transfer the cleared supernatant containing purified DNA to a 1.5 mL microcentrifuge tube or clean microplate (not provided).
- 37. Store DNA at -20°C.

Mag-Bind® cfDNA Kit - Protocol for 4 mL Serum/Plasma

Important: If automating this procedure on a liquid handler or a magnetic processor, please contact your Omega Bio-tek representative for instrument-specific instructions.

Materials and Reagents to be Supplied by User:

- 100% ethanol
- Magnetic separation device for 24-well deep-well plates (AlpAqua Magnum FLX24) or for 15 mL centrifuge tubes and 1.5/2.0 mL microcentrifuge tubes
- Incubator capable of 60°C
- Shaker or rocker for Step 8
- Vortexer
- 24-well deep-well plate or 15 mL centrifuge tubes compatible with magnetic separation device used
- 1.5 mL microcentrifuge tubes compatible with magnetic separation device used
- Optional: microplate for DNA storage

Before Starting:

- Prepare SPW Buffer according to the "Preparing Reagents" section on Page 4.
- Set incubator to 60°C.
- Shake or vortex the Mag-Bind[®] Particles CH to fully resuspend the particles before use.
- 1. Add up to 4 mL serum/plasma samples to a 15 mL centrifuge tube or 24-well deepwell plate (not provided). Choose the correct plasticware depending on the magnetic separation device being used. Bring volume up to 4 mL with Elution Buffer if the volume of sample is less than 4 mL.
- 2. Add 60 µL Proteinase K Solution.
- 3. Add 270 µL DS Buffer.
- 4. Vortex at maximum speed or pipet up and down to mix thoroughly.
- 5. Incubate at 60°C for 30 minutes. Mix by inverting or shaking every 10 minutes.

6. Let sit at room temperature for 10 minutes.

Optional: If desired fragment size is <150 bp, refer to Optional Protocol Modifications: Recovery of Smaller Fragments on Page 5 before proceeding to Step 7. Modified Protocol 2 will require additional JSB Buffer that is not provided with this kit. Please contact your Omega Bio-tek representative for details.

- 7. Add 4 mL JSB Buffer. Vortex at maximum speed for 30 seconds or pipet up and down to mix thoroughly.
- 8. Add 20 μL Mag-Bind[®] Particles CH. Invert the sample 10 times or pipet up and down to mix. Let sit for 10 minutes at room temperature with continuous mixing. The samples must be mixed throughout the 10 minute incubation period by shaking or rocking. *Do not vortex at high speeds* as this will cause excess foaming that can reduce yield. The speed of mixing should be set to continuously keep the Mag-Bind[®] Particles CH resuspended in solution.
- Place the tube/plate on a magnetic separation device to magnetize the Mag-Bind® Particles CH. Let sit at room temperature until the Mag-Bind® Particles CH are completely cleared from solution.
- 10. Aspirate and discard the cleared supernatant. Do not disturb the Mag-Bind® Particles CH.
- 11. Remove the tube/plate containing the Mag-Bind[®] Particles CH from the magnetic separation device.
- 12. Add 1 mL GT7 Buffer v1.1.
- 13. Vortex for 5 minutes to resuspend the Mag-Bind® Particles CH.

Note: Complete resuspension of the Mag-Bind® Particles CH is critical for obtaining good purity.

- 14. Transfer the resuspended Mag-Bind[®] Particles CH to a new 1.5 mL centrifuge tube (not provided) if using a 15 mL centrifuge tube for Steps 1-13. Use a magnetic separation device designed for 1.5/2.0 mL tubes for the remaining procedure. If using a 24-well deep-well plate for Steps 1-13, continue to use the 24-well deep-well plate and a 24-well magnet.
- 15. Place the tube/plate on the magnetic separation device to magnetize the Mag-Bind[®] Particles CH. Let sit at room temperature until the Mag-Bind[®] Particles CH are completely cleared from solution.
- 16. Aspirate and discard the cleared supernatant. Do not disturb the Mag-Bind[®] Particles CH.
- 17. Remove the tube/plate containing the Mag-Bind[®] Particles CH from the magnetic separation device.
- 18. Add another 1 mL GT7 Buffer v1.1.
- 19. Vortex for 5 minutes to resuspend the Mag-Bind® Particles CH.

Note: Complete resuspension of the Mag-Bind® Particles CH is critical for obtaining good purity.

- 20. Place the tube/plate on the magnetic separation device to magnetize the Mag-Bind[®] Particles CH. Let sit at room temperature until the Mag-Bind[®] Particles CH are completely cleared from solution.
- 21. Aspirate and discard the cleared supernatant. Do not disturb the Mag-Bind® Particles CH.
- 22. Remove the tube/plate containing the Mag-Bind[®] Particles CH from the magnetic separation device.
- 23. Add 1 mL SPW Buffer.

Note: SPW Buffer must be diluted with 100% ethanol prior to use. Please see Page 4 for instructions.

- 24. Vortex for 5 minutes to resuspend the Mag-Bind® Particles CH.
- 25. Place the tube/plate on the magnetic separation device to magnetize the Mag-Bind[®] Particles CH. Let sit at room temperature until the Mag-Bind[®] Particles CH are completely cleared from solution.
- 26. Aspirate and discard the cleared supernatant. Do not disturb the Mag-Bind® Particles CH.
- 27. Repeat steps 22-26 for a second SPW Buffer wash step.
- 28. Remove the tube/plate from the magnetic separation device for approximately 30 seconds.
- 29. Place the tube on the magnetic separation device to magnetize the Mag-Bind® Particles CH.
- 30. Aspirate and discard the residual SPW Buffer.
- 31. Leave the tube/plate on the magnetic separation device for 25 minutes to dry the Mag-Bind[®] Particles CH.
- 32. Remove the tube/plate containing the Mag-Bind[®] Particles CH from the magnetic separation device.
- 33. Add 50-100 μL Elution Buffer.
- 34. Vortex at room temperature for 5 minutes to resuspend the Mag-Bind® Particles CH.
- 35. Place the tube on the magnetic separation device to magnetize the Mag-Bind[®] Particles CH. Let sit at room temperature until the Mag-Bind[®] Particles CH are completely cleared from solution.

- 36. Transfer the cleared supernatant containing purified DNA to a 1.5 mL microcentrifuge tube or clean microplate (not provided).
- 37. Store DNA at -20°C.

Notes:

For more purification solutions, visit www.omegabiotek.com



NGS Clean Up

Tissue

FFPE



Fecal Matter



innovations in nucleic acid isolation

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