

Automated DNA & RNA Purification

Magnetic bead-based
purification solutions

 **omega**
BIO-TEK

omegabiotek.com





We deliver high-quality
DNA and RNA purification
solutions to help improve your workflows.

Showcase

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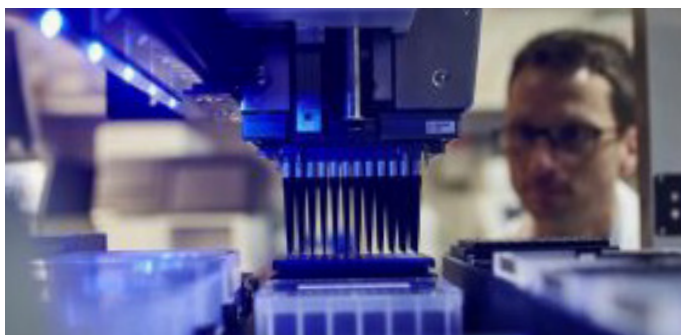
FREE
SAMPLE
KIT

Request your sample kit,
visit www.omegabiotek.com!

High-Throughput DNA & RNA Purification

Our Strengths

Our focus is nucleic acid purification. With a diversified portfolio of DNA and RNA purification kits utilizing our silica filtration and magnetic bead technology, we can tailor our chemistry and packaging to suit your high-throughput purification needs. Our Mag-Bind® magnetic bead-based systems consist of 7 types of magnetic beads. While other competitors may try to use one type of beads for a variety of sample types, Omega Bio-tek matches our magnetic beads with optimized buffers chemistries to achieve optimal purification efficiency.



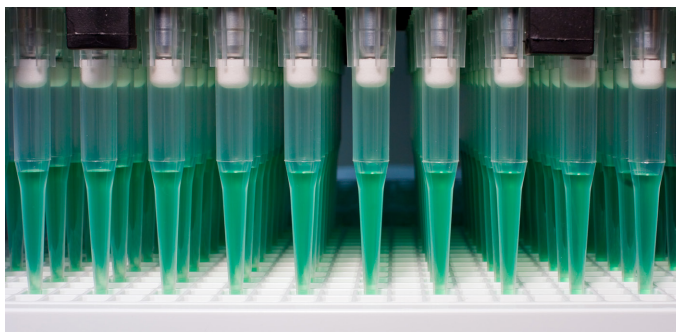
Application Support

Pre- and post- sales, our automation team will guide you through your options and work with you to develop a solution that fits your needs. We offer scripting knowledge for a wide array of open-ended platforms. Our team will work on-site or remotely to assist with method development and ensure a smooth installation.



Customized Kits

From simple to complex samples, we can tailor our reagent systems to the customer's needs. We will work with the customer to customize our kits to adapt to their sample type or their workflow.



Cost Savings

The average Omega Bio-tek customer saves over 30% on their consumable costs. The customer might see savings in reagents, as well as plasticware usage, due to our optimized scripts.



Liquid Handler/Magnetic Processors

Services and Support

Liquid Handler/Magnetic Processors	Consultation	Pre-defined Scripts*	Custom Scripting	Customer Sample Extraction
Hamilton Microlab® STAR™ Line	●	●	●	●
Hamilton Microlab® STAR V	●		●	
Hamilton Microlab® VANTAGE	●		●	
Hamilton Microlab® Prep	●	●	●	●
Hamilton NIMBUS™ Presto	●	●	●	●
Hamilton Microlab® NIMBUS™ 96	●	●	●	
Tecan Fluent® Automation Workstation	●	●	●	●
Tecan EVO®	●	●	●	●
Beckman Coulter Biomek® iSeries	●			
Beckman Coulter Biomek® FX	●			
Beckman Coulter Biomek® NX	●			
Opentron OT-2	●			
Opentron Flex	●			
Eppendorf EpMotion®	●			
Agilent Bravo Automated Liquid Handling Platform	●			
Thermo Scientific™ KingFisher™ Apex	●	●	●	
Thermo Scientific™ KingFisher™ Flex	●	●	●	
Thermo Scientific™ KingFisher™ DUO	●	●	●	●
Thermo KingFisher™ 96	●	●	●	
QIAGEN BioSprint® 96	●	●	●	
Applied Biosystem MagMAX™ 96	●	●	●	
Dynamic Devices Lynx	●	●	●	
Accuris Instruments IsoPure™ 96	●	●		
Accuris Instruments IsoPure™ Mini	●			

* Pre-defined scripts are only available for certain products and applications.

For further information, please contact us at automation@omegabiotek.com.

Visit www.omegabiotek.com/high-throughput for more information.

Custom Solutions

Build Your Automated Nucleic Acid Purification Workflow

Our in-house team of automation specialists, scientists, and manufacturing experts work with you to design, evaluate, and implement your automated workflows. Our team helps you achieve your throughput requirements, optimize tip usage, and select the buffer system and plasticware to develop your desired workflow on your liquid handlers and magnetic processors.



Consultation

Our automation specialists guide you through your options and work with you to develop a solution that fits your needs. Your automation specialist will support you from initial consultation through implementation.



Evaluation

Send your samples to us. Our team will run your samples on our automated platforms as a proof of concept. Samples will be returned to you for further downstream analysis.



Implementation

Our automation specialists develop your automation scripts, existing scripts and expertise developed in our 25 years of nucleic acid purification. We are available virtually or at your facility to make sure your workflow implementation is successful.



Customization

As the manufacturer of all our kits, we can develop customized solutions to meet your labeling requirements, lot requirements, bottle volumes, and packaging configurations ensuring regulatory compliance, reducing waste from excess components, and optimizing the economies of your solution.

Clinical Diagnostic Solutions

We are committed to quality. Omega Bio-tek is ISO 9001:2015 and ISO 13485:2016 certified by NSF-ISR. We ensure that all products are properly assembled, tested, recorded, stored, and shipped. We perform rigorous quality checks of our products and thoroughly train our employees to ensure compliance. We also have several quality control steps within our processes to ensure reliability in performance and consistency in product quality.



Lot Traceability

Our quality system allows for complete traceability from the incoming chemicals from our vendors all the way to Omega Bio-tek's customers' orders fulfillment.. This allows us to know every buffer, component, and even every chemical that is used within our products.

Quality Control

All Omega Bio-tek products have rigorous standards that must be met prior to leaving our door. Each product is checked multiple times in the production process to ensure proper function and packaging. Most of our products are quality controlled using similar methods to which you would be using in the lab. Are you performing qPCR from extracted plant DNA in your laboratory? Before releasing the product, we test the E.Z.N.A.® Plant DNA Kit components by extracting genomic DNA from plants and performing qPCR and gel electrophoresis.

Process Controls

All equipment used in our manufacturing process must be in calibration prior to use and there is full traceability between the finished product and all the equipment used during its manufacture. Employees are trained, and competency assessed to ensure that their work is consistently completed in accordance with standard operating procedures. Our quality system ensures that changes made to the system are thoroughly validated prior to being implemented.

CE-IVD Certified Products

On May 26, 2022, In Vitro Diagnostic Regulation (IVDR 2017/746) became legally binding and requires that products used by laboratories doing genetic testing be either annually certified by the laboratory or be a certified IVDR product (CE-IVD marked). As an ISO 13485:2016 certified manufacturer of nucleic acid purification kits, Omega Bio-tek meets the requirements required to deliver CE-IVD marked products.



Receiving IVDR certification is proof of compliance with current regulations and the standards that go with them. As the manufacturer of a and takes actions to improve the products to ensure that they are safe and effective.

Mag-Bind® cfDNA Kit



Rapid & efficient isolation of circulating, cell-free DNA from 0.5-10 mL plasma or serum samples

- Isolate cell-free (cfDNA) from up to 10mL Plasma or Serum
- Automation-ready scripts processes 96 (1 mL) samples in 2 hours
- High-binding magnetic beads allows 10 mL Serum or Plasma can be eluted to 50 µL

The Mag-Bind® cfDNA Kit is designed for the rapid and efficient isolation of circulating cell-free DNA from up to 10 mL plasma or serum samples. The Mag-Bind cfDNA Kit can be processed manually or using automated platforms. The procedure eliminates the need for funnels and vacuum steps, providing hands-free operation in automated protocols.

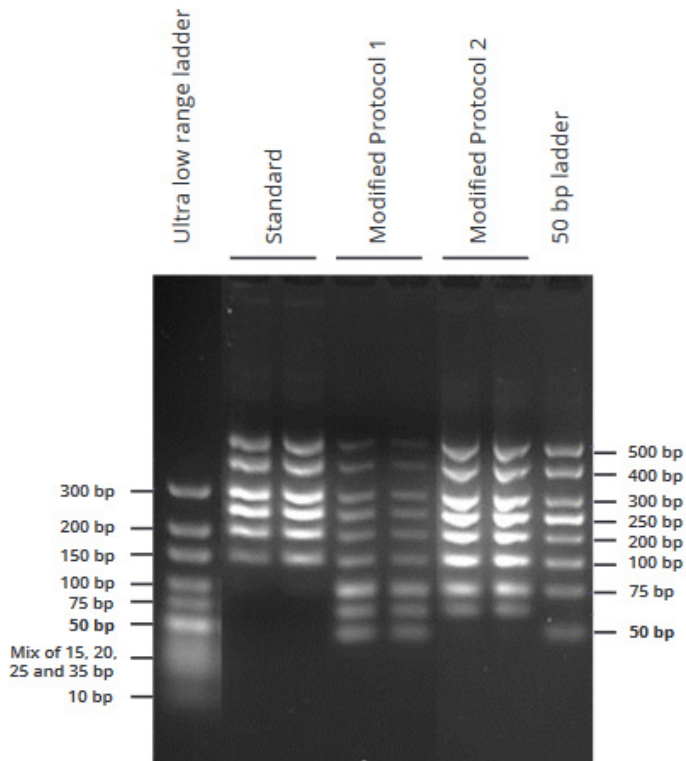
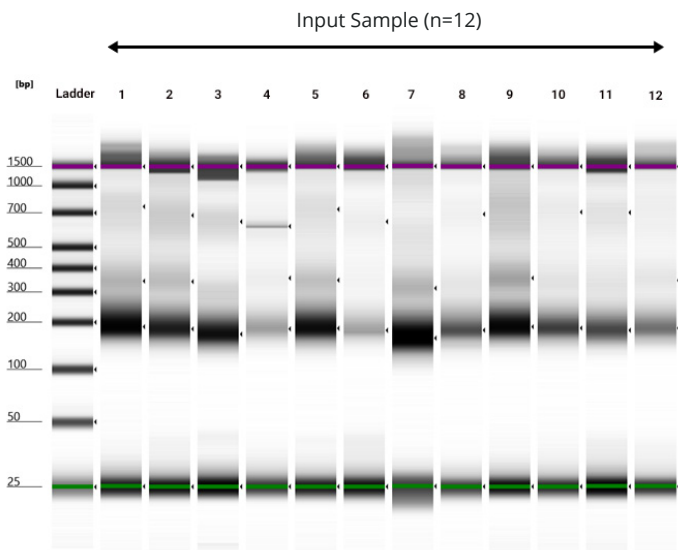
The unique formulation of the lysis and binding buffers allows complete automation of the extraction process, for up to 10 mL sample volumes, with minimal user intervention. The magnetic properties of the Mag-Bind Particles CH enable fast magnetic separation, even when using large volumes. The high binding capacity of the beads allows for lower volume of magnetic particles needed, thus reducing the final elution volume required. 10 mL of serum or plasma can be eluted in as low as 50 µL.

The 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 the binding of larger fragments, such as gDNA.

Features	Specifications
Starting material	Plasma/serum
Starting Amount	500-10,000 µL
Elution Volume	50 µL
Processing Mode	Manual or Automated
Format	Tube, 24-well, 96-well
Nucleic Acid Binding Technology	Magnetic Beads

Product	Preps	Cat. No.
Mag-Bind® cfDNA Kit	5	M3298-00
	50	M3298-01
	200	M3298-02
Mag-Bind® cfDNA Kit CE IVD	50	M3298-01CEIVD
	200	M3298-02CEIVD

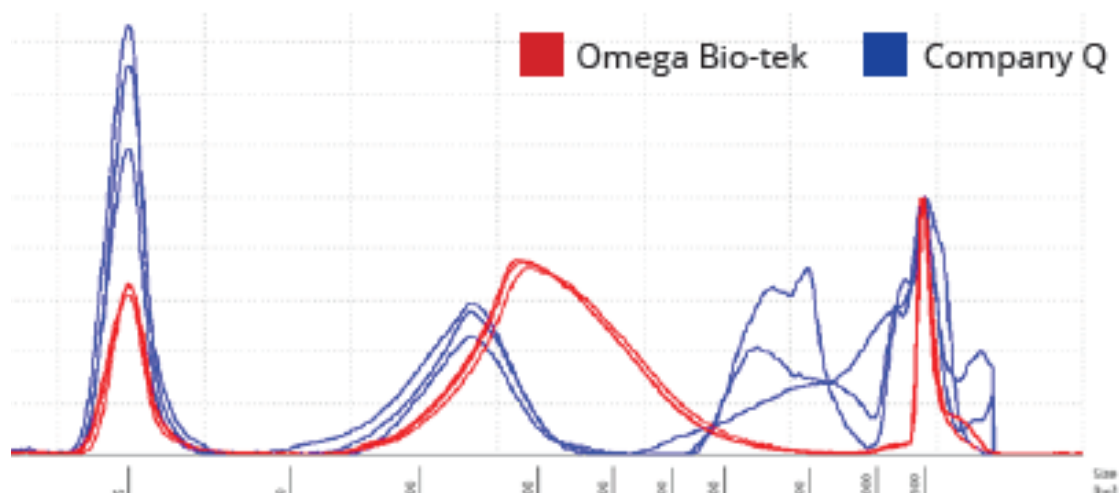
TapeStation® Analysis of Purified cfDNA from 10 mL Plasma Samples



TapeStation® analysis of cfDNA purified from 10 mL of unspiked plasma samples (n = 12) using Omega Bio-tek's kit automated on Hamilton Microlab® STAR™ platform.

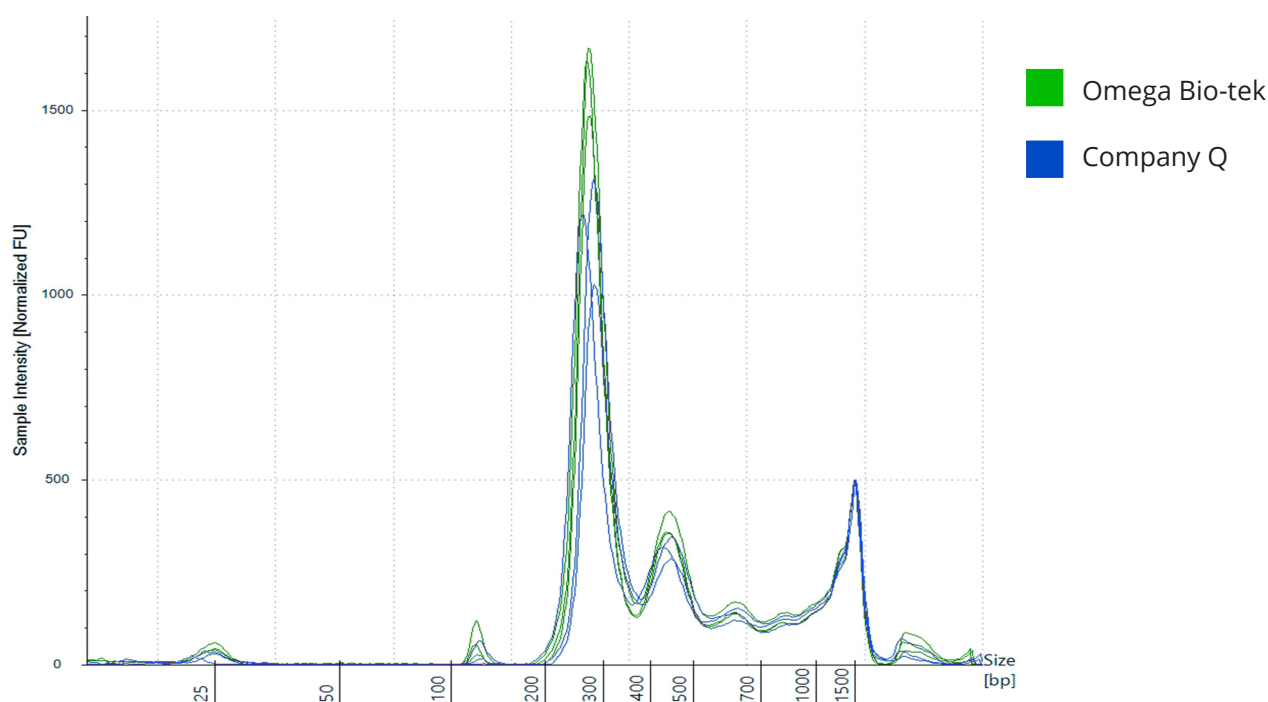
Gel image depicting the recovery of short DNA fragments using different protocol modifications.

Electropherogram Overlay of Purified DNA from 1 mL Serum



100 ng of 200 bp sheared bacterial genomic DNA was spiked into 1 mL of serum and extracted using the Mag-Bind® cfDNA Kit and a comparable column-based kit from Company Q following manufacturer's recommended protocols. Purified DNA was analyzed on Agilent's TapeStation® 2200. The Omega Bio-tek kit was able to capture the circulating, cell-free DNA with no genomic DNA contamination. In contrast, Company Q's eluate contained high molecular weight fragments indicating the presence of genomic DNA in the circulating DNA isolation. Real-time PCR with 16S bacterial-specific primers was performed on triplicates of undiluted and 10-fold dilutions of DNA.

Next Generation Sequencing Library Preps from 1 mL Serum



1 mL of unspiked serum was purified using kits from Omega Bio-tek and Company Q following manufacturer's recommended protocols and eluted in 50 µL. Next Generation Sequencing libraries were constructed using the KAPA Biosystems HyperPrep Library Construction Kit. 25 µL input DNA was used for each prep. Library construction products were analyzed on Agilent's TapeStation® 2200 after adapter ligation.

Mag-Bind® Blood & Tissue DNA HDQ 96 Kit

High-throughput DNA isolation from blood, buccal swabs, saliva & tissue using magnetic beads

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SAMPLE

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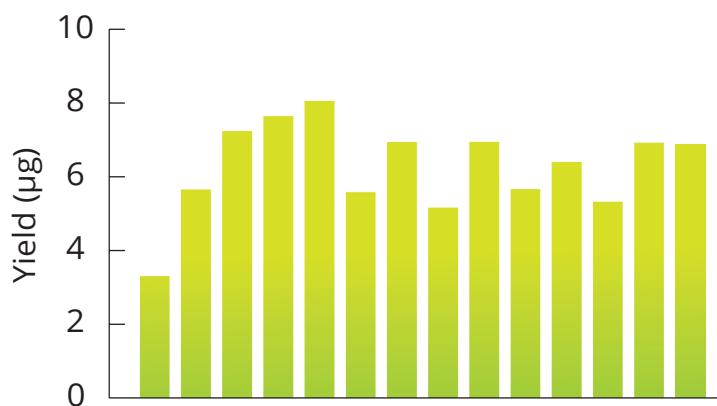
- DNA Extraction from Blood, Saliva, Buffy Coat, Buccal Swabs, Cultured Cells, and Tissues
- Automation Friendly Formats allows for up to 384 samples to be processed in 2.5 hours
- High Quality DNA is ready for NGS, Microarrays, and qPCR

The Mag-Bind® Blood & Tissue DNA HDQ 96 Kit is designed for the rapid and reliable isolation of high-quality genomic DNA from 100-250 µL of blood samples, 500 µL saliva, swabs, mouse tails, dried blood spots, tissues, or 5×10^6 cultured cells. Mag-Bind® Particles HDQ provide quick magnetic response times, thereby reducing overall processing time. This system combines the reversible nucleic acid-binding properties of Mag-Bind® paramagnetic particles with the proven efficiency of Omega Bio-tek's blood and tissue DNA isolation system to provide a rapid and robust method for the isolation of DNA from a variety of biological samples. The system yields high-quality DNA that is suitable for direct use in most downstream applications such as amplification, NGS, and enzymatic reactions.

Features	Specifications
Starting material	Blood samples, saliva, swabs, mouse tails, dried blood spots, cultured cells
Starting Amount	100-250 µL blood samples, 500 µL saliva, swabs, mouse tails, dried blood spots or 5×10^6 cultured cells
Elution Volume	50-200 µL
Processing Mode	Manual (Centrifugation or Vacuum)
Throughput	8-384
Nucleic Acid Binding Technology	Magnetic Beads
Downstream Application	NGS, qPCR, microarray

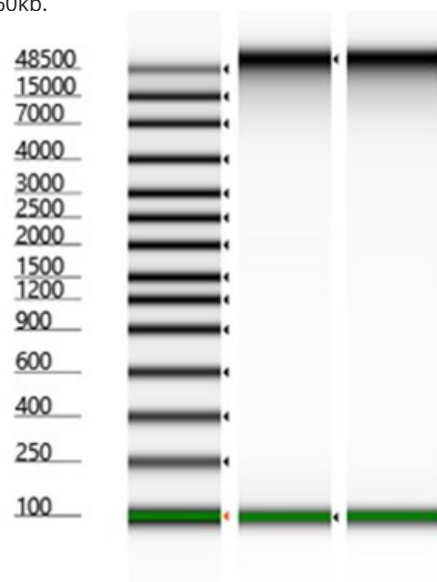
Product	Preps	Cat. No.
Mag-Bind® Blood & Tissue DNA HDQ 96 Kit	1 x 96	M6399-00
	4 x 96	M6399-01
Mag-Bind® Blood & Tissue DNA Kit CE IVD	4 x 96	M6399-01CEIVD

DNA Yield from 200 µL Whole Blood



DNA yield from 200 µL whole blood extracted using the Mag-Bind Blood & Tissue DNA HDQ 96 Kit on the ABI MagMAX 96 instrument. DNA yield was determined by Promega's Quantifluor dsDNA system.

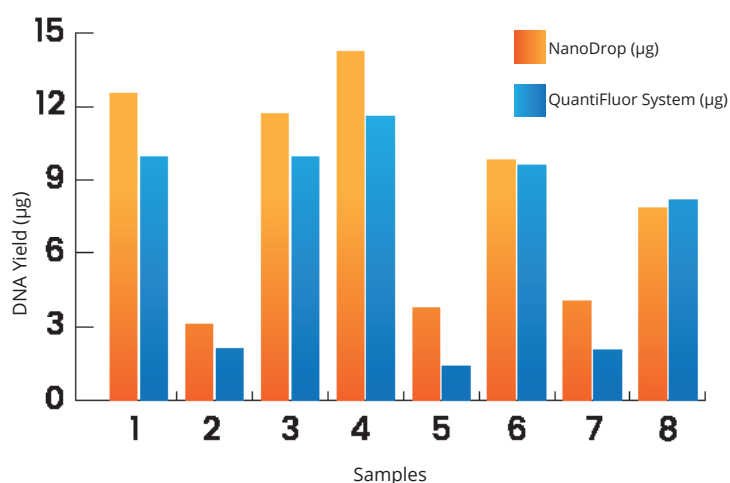
TapeStation® analysis of genomic DNA purified from 250 µL of whole blood using Omega Bio-tek's Mag-Bind® Blood & Tissue DNA 96 Kit (M6399) automated on Hamilton's Firefly NIMBUS® 96. TapeStation® analysis software estimates the molecular weight of the purified DNA to be >60kb.



Automation run times for processing 96 samples using Omega Bio-tek's standard workflows on different liquid handling instruments.

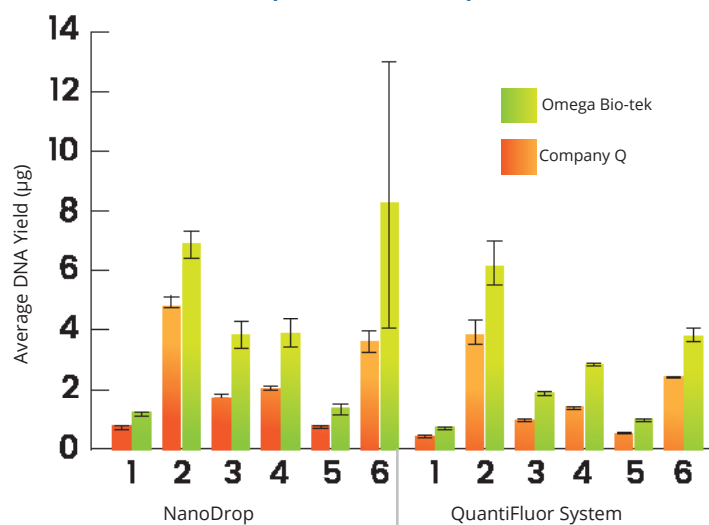
Sample Type	Instrument	Estimated Off-line Processing Time	Estimated Automated Processing Time
Blood	Hamilton Microlab® STAR™	5 min	1 h 45 min
	Tecan Fluent® 780	5 min	1 h 45 min
	Thermo Fisher Scientific KingFisher® Flex	1 h	40 min
Saliva	Hamilton Microlab® STAR™	5 min	1 h 45 min
	Tecan Fluent® 780	5 min	1 h 45 min
	Thermo Fisher Scientific KingFisher®	1 h	40 min
Tissue	Hamilton Microlab® STAR™	1-3 h	1 h 20 min
	Tecan Fluent® 780	1-3 h	1 h 20 min
	Thermo Fisher Scientific KingFisher®	1-3 h	40 min

DNA Yield from Cow Ear Samples



DNA was extracted from one cow ear hole punch and was eluted in 100 µL volume. The extraction followed a modified tissue protocol of Mag-Bind Blood & Tissue DNA HDQ 96 Kit. The DNA yield was determined using Thermo Scientific's NanoDrop 2000c and Promega's QuantiFluor dsDNA system.

Comparison of DNA Yield from 500 µL Saliva Samples



Average DNA yield from 500 µL Saliva Samples isolated from Mag-Bind® Blood & Tissue DNA HDQ 96 Kit automated on Tecan Fluent platform and comparable kit from Company Q following manufacturer's recommended protocols. Purified DNA was quantified using Thermo Scientific's NanoDrop 2000c system as well as Promega's QuantiFluor dsDNA system.

Mag-Bind® FFPE DNA/RNA 96 Kit

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Sequential isolation of both DNA and RNA from the same FFPE sample using magnetic beads

- Xylene-free protocol
- Extraction of both DNA and RNA in separate eluates from the same FFPE sample
- No splitting of samples
- Magnetic bead-based purification
- Automation friendly

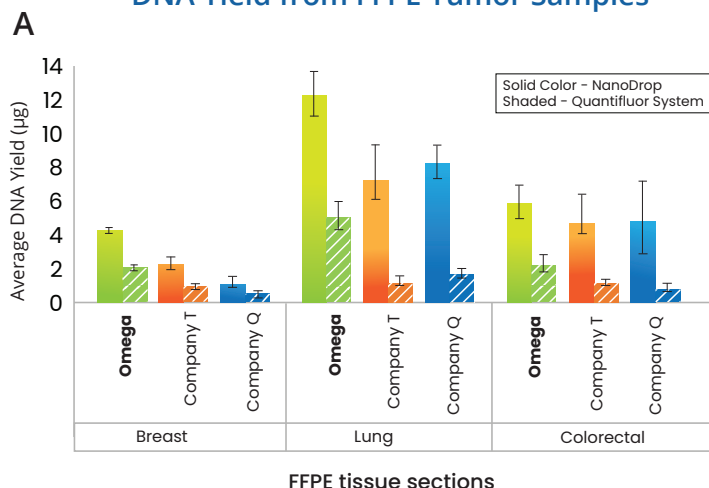
Mag-Bind FFPE DNA/RNA 96 Kit is designed for the sequential isolation of DNA and RNA from the same formalin-fixed, paraffin-embedded (FFPE) tissue sample. The protocol utilizes non-toxic mineral oil in combination with heat for efficient deparaffinization of the FFPE sample eliminating the use of hazardous xylene. The specially formulated buffers reverse cross-linking without the need for overnight digestion resulting in high-yielding, high-quality nucleic acids. The isolation protocol allows for extraction of both DNA and RNA in separate eluates from the same sample for a comprehensive analysis of both the nucleic acids. Purified DNA and RNA are suitable for a variety of downstream applications including SNP analysis, sequencing, and genotyping.

The Mag-Bind® system is fully automatable on Hamilton Microlab® STAR™, Tecan Freedom Evo®, Thermo Fisher Scientific KingFisher® Flex Purification System, and other open-ended workstations.

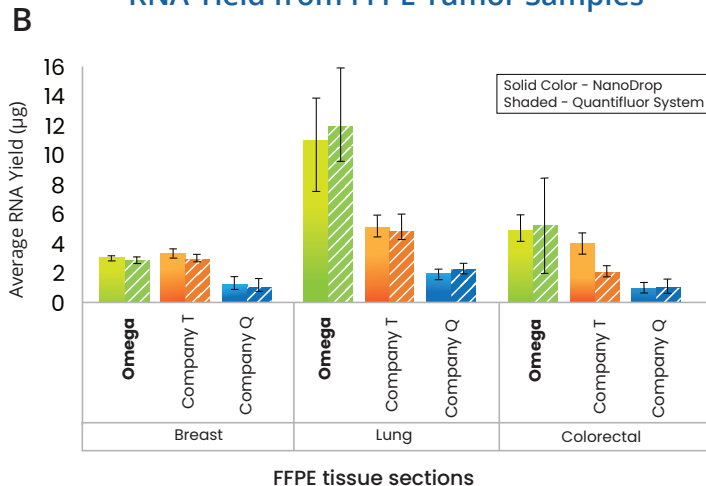
Features	Specifications
Starting material	FFPE tissue
Starting Amount	< 3 FFPE sections of 10 µm thickness each
Elution Volume	50-200 µL
Processing Mode	Manual or Automated
Throughput	Up to 96
Nucleic Acid Binding Technology	Magnetic Beads
Downstream Application	NGS, PCR, qPCR, real-time RT-PCR, microarray, microRNA analysis

Product	Preps	Cat. No.
Mag-Bind® FFPE DNA/RNA 96 Kit	1x96	M6955-00
	4x96	M6955-01

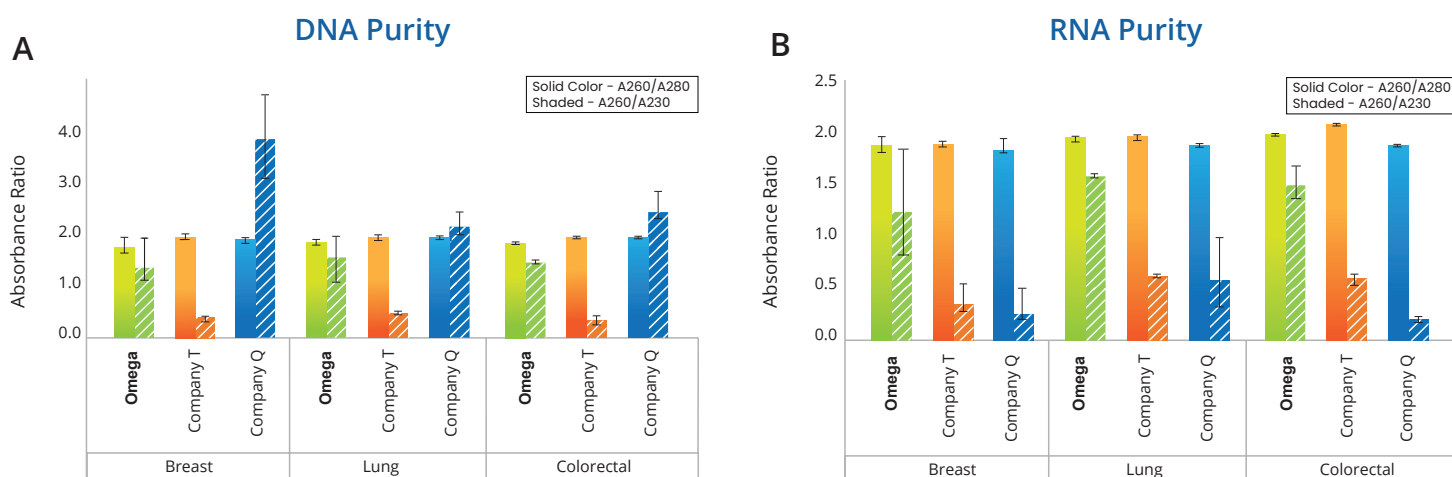
DNA Yield from FFPE Tumor Samples



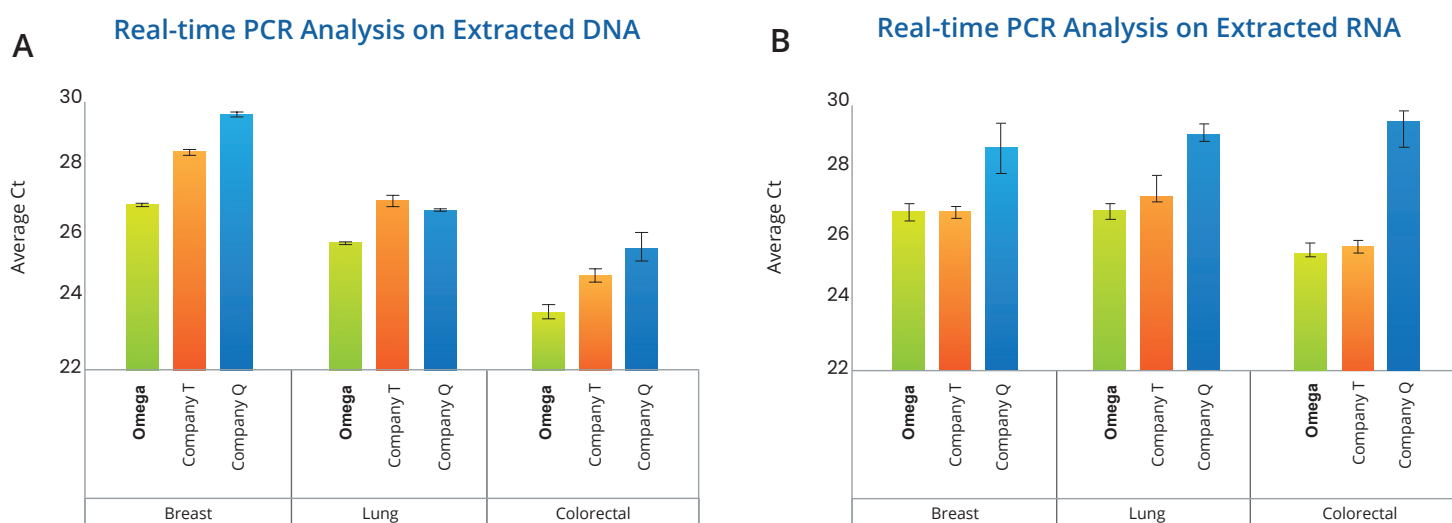
RNA Yield from FFPE Tumor Samples



Average DNA (A) and RNA (B) yields from FFPE tumor samples. Genomic DNA (A) and RNA (B) was sequentially isolated from the same 1 × 10 µm section of the FFPE tumor tissue sample (n=3) using Omega Bio-tek's Mag-Bind® FFPE DNA/RNA 96 Kit and comparable kits from Company T and Company Q following manufacturer's recommended protocols. Purified DNA and RNA was quantified using Thermo Fisher Scientific NanoDrop® 2000c system as well as Promega's QuantiFluor® dsDNA and RNA system.



Purity of DNA (A) and RNA (B) isolated using different manufacturer's kits was analyzed through spectrophotometry focusing on A260/A280 and A260/A230 ratios.



Real-time PCR with human DNA- and RNA-specific primers was performed in triplicate on 10-fold dilution of DNA (A) and RNA (B) eluates respectively. Average Ct values obtained amplifying the purified DNA and RNA from the same FFPE tumor sample (n=3) following the respective manufacturer's recommended protocols are shown above.

Average DV₂₀₀ value (percentage of fragments >200 nt) of RNA purified using different kits analyzed on Agilent's TapeStation® 2200.

FFPE Tumor Tissue Type	Kit Manufacturer	DV200 region of purified RNA (%)
Breast	Omega Bio-tek	74.90
	Company T	70.54
	Company Q	59.38
Lung	Omega Bio-tek	76.86
	Company T	69.85
	Company Q	60.28
Colorectal	Omega Bio-tek	70.97
	Company T	66.75
	Company Q	38.40

ΔCq values of DNA extracted from FFPE and non-FFPE colorectal tumor tissue samples using kits from different manufacturers.

Kit Manufacturer	Colorectal tissue sample	Cq (or Ct)	ΔCq relative to fresh frozen
Omega Bio-tek	FFPE	25.42	3.10
Company T	FFPE	26.39	4.06
Company Q	FFPE	27.64	5.32
n/a	Fresh Frozen	22.33	n/a

MagBinder® Fit²⁴ Nucleic Acid Purification System

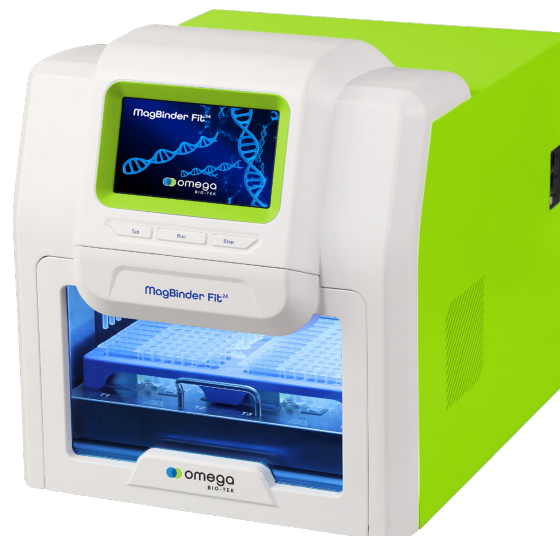
New Standard for High-Volume, Cost-Effective Nucleic Acid Purification

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Elevate your laboratory experience with the MagBinder® Fit²⁴ Nucleic Acid Purification System. Efficiency, affordability, precision, and reliability, all in one powerful instrument. Order yours now and unlock the future of nucleic acid purification!

- Flexible purification of 1 to 24 high or low volume samples
- Faster workflows using pre-filled MB Fit24™ cartridges
- Easy-to-use with a wide range of sample types



Process a variety of Sample types



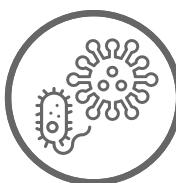
Whole Blood



Saliva



Cell-free DNA



Pathogens



Swab



Fecal



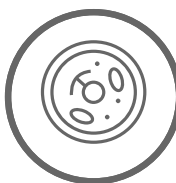
FFPE



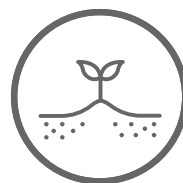
Plasmid



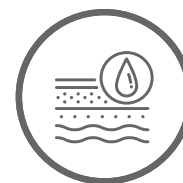
Insect and
Mollusc



Tissue



Plant



Environmental

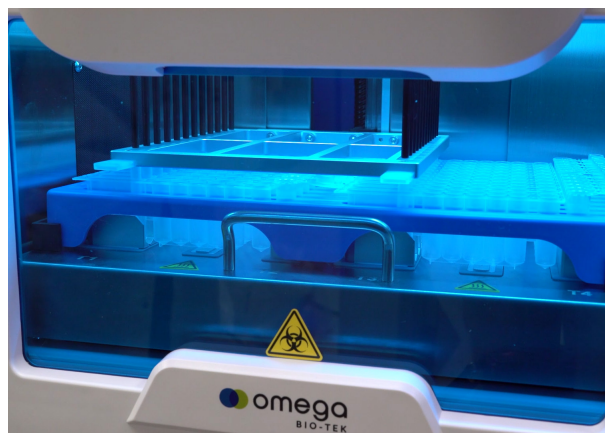
Research and IVD Ready

The MagBinder® Fit²⁴ is not just an instrument, it is your solution to more efficient, automated workflows, specifically designed for nucleic acid purification for research applications, and in countries that accept CE-IVD, in vitro diagnostic applications. Tailored for use in laboratories that cannot justify a high-throughput solution, it brings efficiency to your research protocols.

MagBinder® Fit²⁴ Nucleic Acid Purification System

New Standard for High-Volume, Cost-Effective Nucleic Acid Purification

Experience efficient nucleic acid purification with the MagBinder® Fit²⁴ Nucleic Acid Purification System. Our affordable, state-of-the-art instrument utilizes 24 magnetic rods coordinated to pick-up, transfer, and release magnetic particles within reagent cartridge wells, ensuring a reliable and streamlined process for DNA and RNA purification. Accommodating 1 to 24 samples simultaneously, the MagBinder® Fit²⁴ is compatible with a range of sample types, thanks to its magnetic bead-based nucleic acid extraction cartridges and kits.



Turnkey Solution

Designed to work seamlessly with both Omega Bio-tek Mag-Bind® kits and specially designed MB Fit24™ cartridges complete with validated and optimized preloaded protocols. Running these protocols is a breeze. Have any questions about instrument protocols? Reach out to an Omega Bio-tek application specialist for support.



Our first pre-filled cartridge and validated script, which purifies high-quality cfDNA from 4mL of serum or plasma, has received CE-IVD approval. Visit omegabiotek.com to learn about all our MB Fit24 pre-filled cartridges and available scripts for our Mag-Bind kits.

Mag-Bind® Universal Pathogen 96 Kit

High-throughput DNA & viral RNA isolation from a variety of sample sources

REQUEST
A
SAMPLE

- Ceramic Beads Pre-Aliquoted into 96-well format for sample homogenization
- Isolate Viral DNA and RNA
- Isolates Yeast, Fungal, Bacterial, and Viral DNA

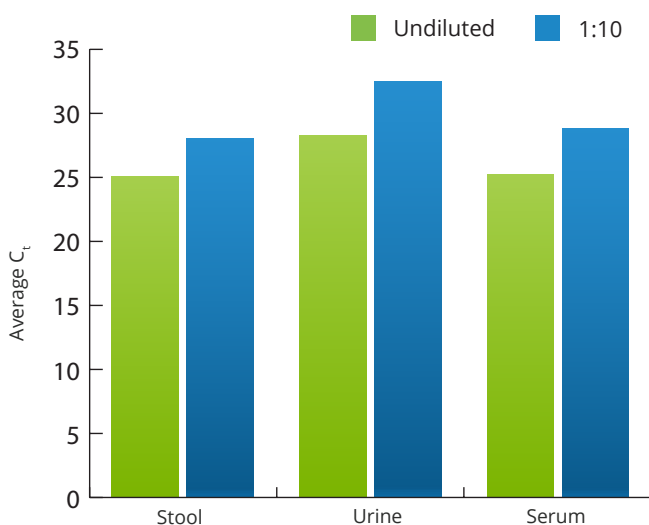
Mag-Bind® Universal Pathogen 96 Kit allows rapid and reliable isolation of high-quality host genomic DNA, gram-positive and -negative bacterial DNA, fungal spore DNA, and viral DNA and viral RNA from tissue, urine, serum, and fecal samples. The extraction system allows for automation after sample lysis via Hamilton Microlab® STAR™, Thermo Fisher Scientific KingFisher® Flex, Applied Biosystems' MagMAX® 96, QIAGEN BioSprint® 96, and other liquid handling instruments. Typical automated processing time is 1 hour for 96 samples.

This novel system combines the rapid magnetic response time of Mag-Bind® technology with the uniquely formulated RBB Buffer to eliminate the isolation of PCR-inhibiting compounds along with the nucleic acids of interest. No organic extractions are involved, reducing plastic waste and hands-on time, making it amenable for high-throughput applications. Purified DNA is suitable for a variety of applications including NGS, PCR, restriction digestion, etc.

Features	Specifications
Starting material	Plasma/serum, tissue, stool, urine
Starting Amount	250 µL plasma/serum/stool, 30 mg tissue
Elution Volume	50-100 µL
Processing Mode	Manual or Automated
Throughput	96
Nucleic Acid Binding Technology	Magnetic Beads
Downstream Application	NGS, qPCR, microarray

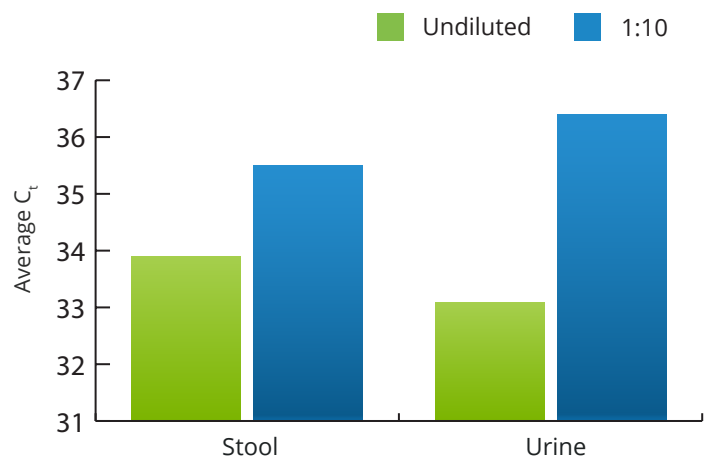
Product	Preps	Cat. No.
Mag-Bind® Universal Pathogen 96 Kit	1 x 96	M4029-00
	4 x 96	M4029-01

Viral RNA



Influenza A/B virus was spiked into corresponding sample types and isolated with the Mag-Bind® Universal Pathogen 96 Kit. 20 µL SYBR® qPCR were performed in triplicate on primers specific to the target organism. Average of triplicate data is shown.

Gram-Positive Bacteria



Group B *Streptococcus* was spiked into corresponding sample types and isolated with the Mag-Bind® Universal Pathogen 96 Kit. 20 µL SYBR® qPCR was performed in triplicate on primers specific to the target organism. Average of triplicate data is shown.

Mag-Bind® Viral DNA/RNA 96 Kit

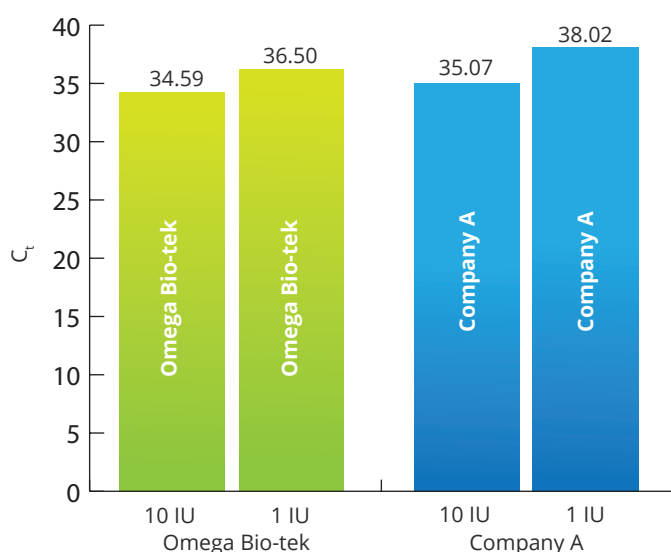
Isolate viral DNA & RNA from whole blood, serum, plasma & bodily fluids using magnetic beads

REQUEST
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SAMPLE

The Mag-Bind® Viral DNA/RNA 96 Kit is designed for rapid and reliable isolation of viral DNA and RNA from cell-free samples such as serum, plasma, cell culture supernatant and other biological samples such as swabs, aspirates, etc. The Mag-Bind® paramagnetic bead technology is optimized for the recovery of low viral titer and provides high quality viral DNA or RNA suitable for direct use in most downstream applications such as RT-PCR, PCR and other enzymatic reactions. The extraction methodology is easily adaptable to various automated systems and can be scaled up or down depending on the amount of starting material used. The kit is not designed to separate cellular DNA from viral nucleic acids and cellular nucleic acid will be co-purified if present.

Protocols are available for the following automated platforms:

- Hamilton Microlab® STAR
- Hamilton Microlab® NIMBUS
- KingFisher™, BioSprint®, and MagMAX® 96
- Adaptable to other liquid handling platforms



Manufacturer	Template (μL)	C _t
Omega Bio-tek	3	23.37
	0.3	26.72
	0.03	29.7
Company Q	3	23.36
	0.3	26.73
	0.03	29.7

Table 1. Nucleic acid was isolated from 200 μL of human whole blood with Omega Bio-tek's Mag-Bind® Viral DNA/RNA 96 Kit and a kit from Company A using the manufacturer's recommended protocols. The extractions were eluted in 100 μL. 3 concentrations of template were used as templates in a SYBR® Green labeled qPCR reaction. Each reaction was performed in quadruplicate and the mean C_t value is depicted in the above figure.

Some of the viruses* detected using our viral kits.

Influenza A	SARS-CoV-2
Influenza B	Porcine circovirus type 2 (PCV2)
West Nile virus	Arboviruses
Middle East Respiratory Syndrome Coronavirus (MERS-CoV)	Dengue virus
Zika virus (ZIKAV)	GB virus C
SIV	Bovine Viral Diarrhea Virus
HIV	Sheep pox virus
Influenza A (H1N1)	Murine norovirus 1
Hepatitis A virus types 1 and 3	Canine distemper virus
Hepatitis B virus	Rabies virus
Hepatitis E	Rotavirus
Infectious Bronchitis virus	Coxsackievirus B3
Porcine reproductive and respiratory syndrome Virus (PRRSV)	Coxsackievirus A6
Insect-specific flaviviruses, mononegaviruses, and totiviruses	Avian leukosis virus subgroup J
orf virus (ORFV)	Avian Encephalomyelitis Virus
Marek's disease virus	Crimean-Congo hemorrhagic fever virus

Product	Preps	Cat. No.
Mag-Bind® Viral DNA/RNA 96 Kit	1x96	M6246-01
	4x96	M6246-02
	12x96	M6246-03

Mag-Bind® Viral RNA Xpress Kit

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AVAILABLE

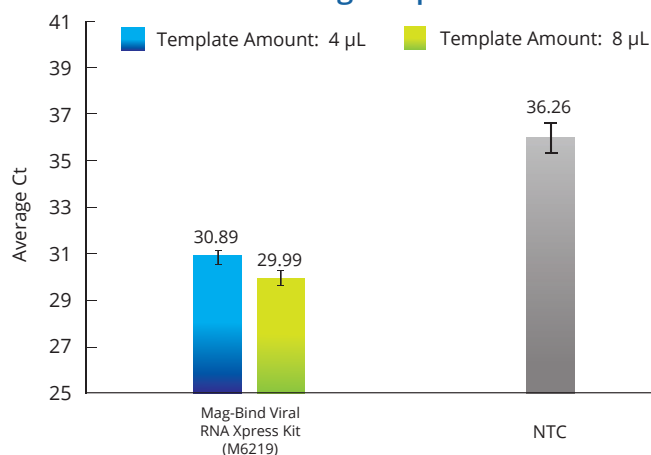
High-throughput isolation of viral DNA and RNA from nasopharyngeal swab specimens

Benefits over Mag-Bind® Viral RNA Xpress Kit

- Improved downstream performance
- Faster protocol
- No Proteinase K step
- Smaller packaging with double the number of preps for reduced shipping costs
- 10% savings on cost per prep

Mag-Bind Viral RNA Xpress Kit follows a magnetic bead-based approach for the rapid and reliable isolation of viral RNA from nasopharyngeal (NP) swab specimens that are dry or in viral transport media (VTM). The extraction methodology is easily adaptable to various sample types, automated systems and can also be scaled up or down depending on the amount of starting sample amount used. The kit utilizes the proven Mag-Bind® technology that enables purification of high-quality nucleic acids that are free of proteins, nucleases, and other impurities. The purified nucleic acids are ready for direct use in downstream applications such as qPCR, RT-qPCR and more.

Detection of Synthetic SARS-CoV-2 Virus Control Following RT-qPCR



1×10^5 copies of synthetic SARS-CoV-2 was spiked into a 200 µL sample containing 2000 HEK293 cells. Viral nucleic acids were extracted following the recommended protocol from Mag-Bind® Viral RNA Xpress Kit (M6219). 4 and 8 µL of template was used in a 20 µL SYBR Green-labeled RT-qPCR reaction. The average Ct values obtained are shown on the left. The Ct difference between the two template amounts is ~1 indicating no qPCR inhibition.

Product	Preps	Cat. No.
Mag-Bind® Viral RNA Xpress Kit	24x96	M6219-2304
Mag-Bind® Viral DNA/RNA Xpress Kit CE IVD	24x96	M6219-2304CEIVD

Features	Specifications
Starting material	Saliva; NP swabs in UTM/VTM as well as dry
Starting Amount	50 µL - 200 µL
Elution Volume	50-100 µL
Processing Mode	Manual or Automated
Throughput	8-96
Nucleic Acid Binding Technology	Magnetic Beads
Downstream Application	Amplification and other enzymatic reactions

Some of the viruses* detected using our viral kits.

Influenza A	Hepatitis E	SARS-CoV-2
Influenza B	Infectious Bronchitis virus	Sheep pox virus
West Nile virus	Porcine reproductive and respiratory syndrome Virus (PRRSV)	Murine norovirus 1
Middle East Respiratory Syndrome Coronavirus (MERS-CoV)	Insectspecific flaviviruses, mononegaviruses, and totiviruses	Canine distemper virus
Zika virus (ZIKAV)	orf virus (ORFV)	Rabies virus
SIV	Porcine circovirus type 2 (PCV2)	Rotavirus
HIV	Arboviruses	Coxsackievirus B3
Influenza A (H1N1)	Dengue virus	Coxsackievirus A6
Hepatitis A virus types 1 and 3	GB virus C	Avian leukosis virus subgroup J
Hepatitis B virus	Bovine Viral Diarrhea Virus (BVDV)	Avian Encephalomyelitis Virus
SARS-CoV-2		Crimean-Congo hemorrhagic fever virus

*References available upon request

Mag-Bind® PX Blood RNA 96 Kit

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Fast & convenient RNA extraction solution for samples stored in PAXgene or Tempus tubes

- Isolate RNA from samples stabilized in PAXgene™ blood RNA tubes using magnetic beads

The Mag-Bind® PX Blood RNA 96 Kit provides a convenient and fast RNA extraction solution for samples stabilized in PAXgene blood RNA tubes or Applied Biosystems' Tempus™ blood RNA tubes. This system combines Mag-Bind® particles and HiBind® silica column technology for purification of total RNA from up to 2.5 mL preserved blood samples.

The blood sample is spun down and the crude RNA/DNA pellet is collected and washed. The pellet is then resuspended and digested with Proteinase K. The lysate is applied to a filter plate to remove genomic DNA. This procedure completely removes inhibitors and sample stabilization reagents to allow for reliable downstream analysis. High-quality purified RNA can be used for downstream applications such as qRT-PCR, RT-PCR, and microarray analysis.

Features	Specifications
Starting material	Blood in PAXgene RNA tube
Starting Amount	Up to 2.5 mL
Elution Volume	50-100 µL
Processing Mode	Manual or Automated
Throughput	96
Nucleic Acid Binding Technology	Magnetic Beads
Downstream Application	PCR, qPCR, real-time RT-PCR, microarray, Northern blot, poly-A purification

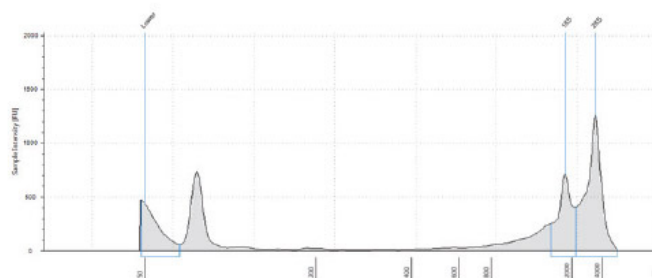
Product Description	Preps	Catalog No.
Mag-Bind® PX Blood RNA 96 Kit	1 x 96	M7763-00
	4 x 96	M7763-01
	12 x 96	M7763-02

RIN Integrity Assessment

Manufacturer	RIN ^e	28S/18S Ratio	Conc. (ng/µL)
Omega Bio-tek	7.5	2.1	65.3
Omega Bio-tek	7.6	2.2	29.5
Company Q	7.2	2.2	33.3
Company Q	7.1	2.2	34.7

The quality of the RNA purified was assessed by the RNA integrity score (RIN^e) determined from the electrophoretic trace and Agilent's TapeStation 2200 system.

Electropherogram Representing Purified RNA



2.5 mL whole blood was drawn to PAXgene™ blood RNA tubes and stored at room temperature for 24 hours. RNA was purified following manufacturer's recommended protocols. RNA was analyzed on Agilent's TapeStation 2200.

Mag-Bind® TotalPure NGS

Bead-based purification of DNA & RNA for Next Generation Sequencing workflows

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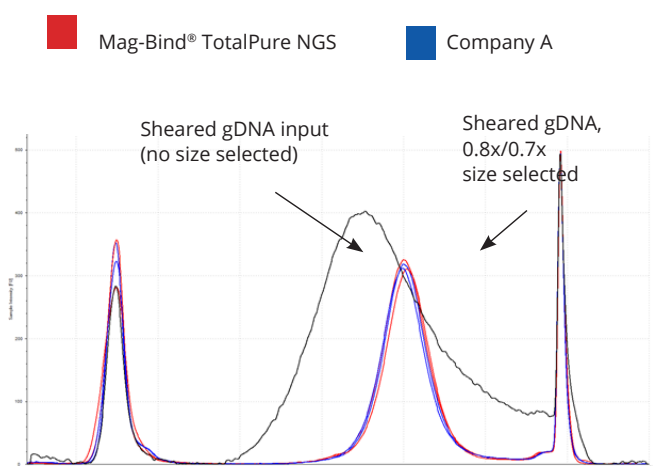


- No protocol change against major competitor
- NGS: Double or single-sided size selection
- DNA cleanup: PCR cleanup
- RNA cleanup: cDNA or RNA purification
- Manual or adaptable to most open-ended liquid handlers
- Significant cost savings
- 96- or 384-well formats

Product	mL	Cat. No.
Mag-Bind® Total Pure NGS	5 mL	M1378-00
	50 mL	M1378-01
	500 mL	M1378-02

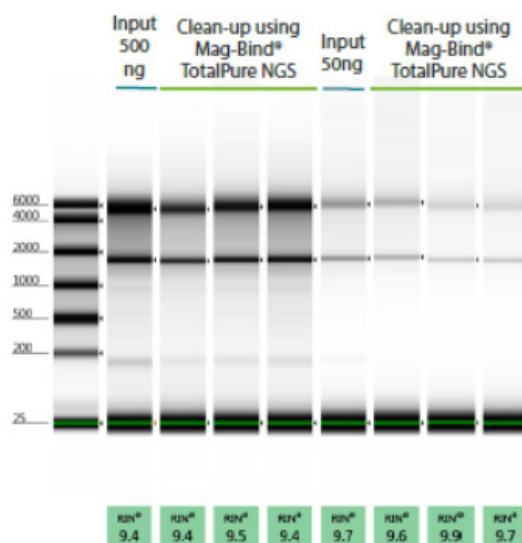
Mag-Bind® TotalPure NGS offers an easy-to-use, reliable solution for the purification of both DNA or RNA for Next Generation Sequencing workflows with high recovery rates. Mag-Bind TotalPure NGS is capable of selectively binding fragments depending on the reagent to sample ratio used, giving the user flexibility to perform left, right, or double-sided size selection. This product is designed for both manual or fully automated purification of DNA and RNA samples, as well as for the purification of PCR products. The system combines Omega Bio-tek's proprietary chemistries with reversible nucleic acid binding properties of magnetic beads to selectively bind fragments larger than 100 bp and eliminate excess nucleotides, primers, and small, non-targeted products such as primer-dimers. Purified DNA and RNA is suitable for a variety of downstream applications such as NGS library preparation, microarrays, automated fluorescent sequencing, and restriction enzyme digestion.

Double-Sided Size Selection



Electropherogram overlay of the double-sided size selection on sheared gDNA at 0.8x/0.7x ratio set and using Omega Bio-tek's Mag-Bind® TotalPure NGS and a comparable product from Company A following manufacturer's recommended protocols. The DNA was eluted in 25 µL and analyzed on Agilent's TapeStation 2200.

RNA Recovery Rates



10 µL of RNA at 50 ng/µL and 5 ng/µL was cleaned up with Omega Bio-tek's Mag-Bind TotalPure NGS following manufacturer's recommended protocols. The RNA was eluted in 20 µL and analyzed on Agilent's TapeStation 2200. Recovery rates were 85-92% respectively.

Mag-Bind® SeqDTR

Removes unincorporated dye terminators from sequencing reactions

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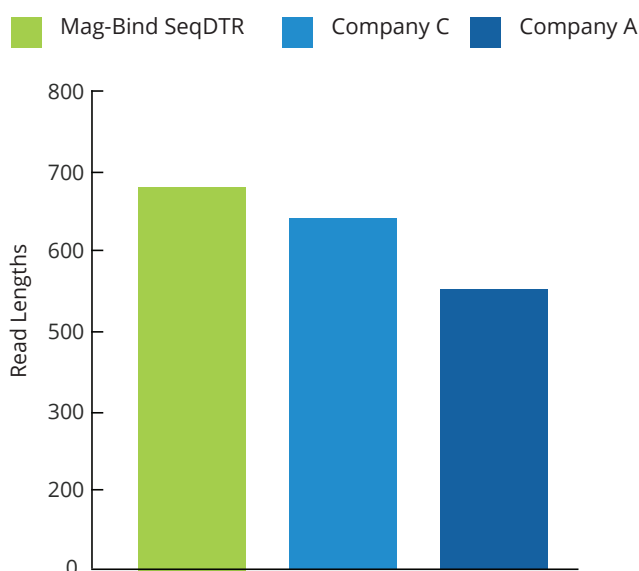


- No protocol change against major competitor
- Read lengths averaging over 800 bps (Min Phred 20)
- Manual or adjustable to automated liquid handlers
- Significant cost savings compared to sephadex-based clean ups
- 96- or 384-well formats

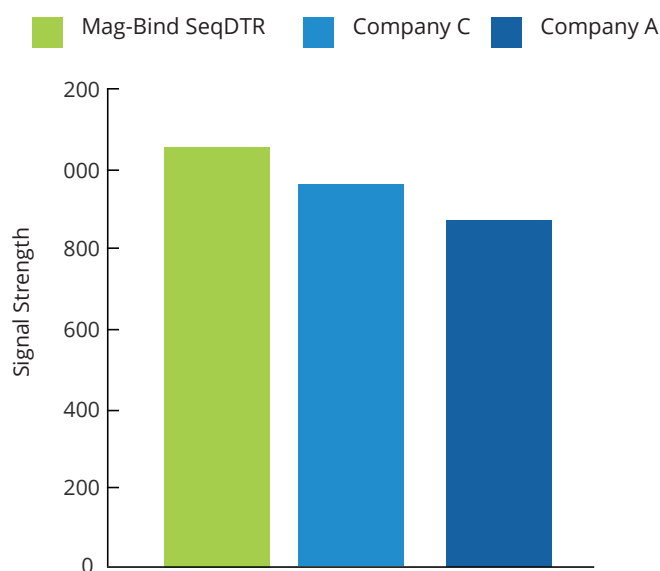
Product	mL	Cat. No.
Mag-Bind® SeqDTR	5 mL	M1300-05
	50 mL	M1300-08
	500 mL	M1300-50

Mag-Bind® SeqDTR is designed to effectively and reliably remove unincorporated terminators from sequencing reactions. Sequencing products are mixed with the Mag-Bind SeqDTR magnetic particles which selectively bind DNA. Two rapid wash steps eliminate trace contaminants such as nucleotides and primers to reduce background signal and therefore achieve higher QV scores. The high sensitivity of Mag-Bind SeqDTR's binding ability allows for decreased concentrations of BigDye® chemistry to be used and longer continuous read lengths to be achieved. Mag-Bind SeqDTR can be processed in 96- and 384- well formats and is compatible with many liquid handling instruments, including Hamilton Microlab® STAR™ & STARlet™, Beckman Coulter Biomek® FX & NX and Tecan Evo instruments. Up to 4 plates can be run in a 96-well format in less than 25 minutes.

Continuous Read Lengths



Signal Strength



Purified 1.8 kb PCR fragments were sequenced from each company using the recommended protocols. The median of 16 samples per company were used in the representations above. A 5 µL sequencing reaction was performed using a 1/32 dilution of Applied Biosystems Big Dye Terminator v3.1 chemistry. DNA was analyzed on an Applied Biosystems 3730 XL.

Mag-Bind® Stool DNA 96 Kit

Isolates high-quality host & pathogen genomic DNA from stool samples utilizing magnetic beads

REQUEST
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SAMPLE

- Isolate DNA from fecal samples using magnetic beads

The Mag-Bind Stool DNA 96 Kit is designed for rapid and reliable isolation of high-quality host as well as pathogenic genomic DNA from stool samples. The Mag-Bind® technology is ideally suited for automated liquid handlers and the uniquely formulated cHTR reagent eliminates PCR-inhibiting compounds such as humic acids, lipids, etc. commonly found in stool samples. The extraction system allows for automation after sample lysis via Hamilton Microlab® STAR™, Thermo Fisher Scientific KingFisher® Flex, Applied Biosystems MagMAX® 96, Qiagen BioSprint® 96 and other liquid handling instruments.

The kit includes our 96-well disruptor plates which are pre-filled with glass beads. The protocol involves no organic extractions reducing both plastic waste and hands-on time to allow parallel processing of multiple samples. Purified DNA is inhibitor-free and is suitable for various downstream applications such as PCR, restriction digestion and NGS.

Features	Specifications
Starting material	Fecal material
Starting Amount	300 µL
Elution Volume	50-100 µL
Processing Mode	Manual or Automated
Throughput	96 samples per run
Nucleic Acid Binding Technology	Magnetic Beads
Downstream Application	PCR, restriction digestion, and hybridization applications

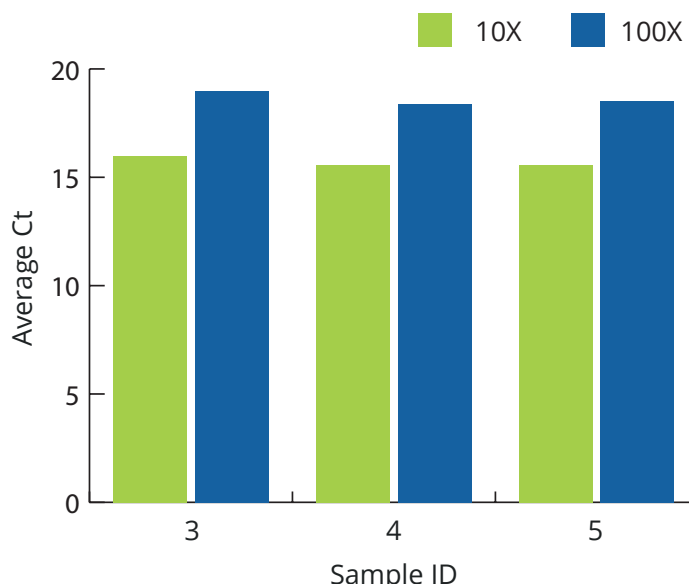
Product	Preps	Cat. No.
Mag-Bind® Stool DNA 96 Kit	1x96	M4016-00
	4x96	M4016-01

DNA Yield and Purity

Sample ID	DNA Yield in µg (NanoDrop®)	A ₂₆₀ /A ₂₈₀	DNA Yield in µg (PicoGreen®)
1	3.61	1.87	3.20
2	3.71	1.87	4.20
3	2.73	1.9	2.00
4	3.03	1.83	2.70
5	1.76	1.83	1.90
6	3.53	1.81	3.70
7	3.60	1.86	3.30
8	1.76	1.83	2.00

DNA was extracted from 250 µL of stool samples and was eluted in 100 µL volume. The DNA yield was determined using NanoDrop and PicoGreen quantification methods.

Purified DNA Ct Values



Average Ct values obtained using 16S bacterial specific primers on 10X and 100X diluted purified DNA as the template. Sample IDs 3, 4, and 5 are represented here.

Mag-Bind® Total RNA 96 Kit

REQUEST
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SAMPLE

Isolates high-quality total cellular RNA from a variety of cells & tissues

Mag-Bind® Total RNA Kit provides a novel technology for high-quality total RNA isolation from a wide variety of cells and tissues. Total RNA can be purified from 5-10 mg of tissue or 1x10⁶ cultured cells. The system combines the efficient reversible nucleic acid-binding properties of Mag-Bind® particles with our RNA buffer chemistry to provide superior quality RNA. Unlike column-based systems, the binding of nucleic acids to magnetic particles occurs in solution resulting in increased binding kinetics and binding efficiency. Particles are also completely re-suspended during the wash steps or the purification protocol, which improves removal of contaminants and increases nucleic acid purity. The Mag-Bind® Total RNA 96 procedure can be fully automated on most robotic workstations.

Features	Specifications
Starting material	Animal tissue and cultured cells
Starting Amount	1 x 10 ⁶ cells or 10 mg tissue
Elution Volume	50-100 µL
Processing Mode	Manual or Automated
Throughput	96
Nucleic Acid Binding Technology	Magnetic Beads
Downstream Application	NGS, qPCR, microarray

RNA Yield Comparison

	Tissue (mg)	NanoDrop® (ng/µL)	NanoDrop® Yield (µg)	RIN®
Company Q	9	329.7	16.485	7.9
	10	187.8	9.39	8.1
	8.5	198.2	9.91	8.3
	10	416.2	20.81	7.6
Omega Bio-tek	10	348.4	34.84	6.9
	9	329.4	32.94	7.8
	8	263.6	26.36	8
	12	355.7	35.57	7.5

Total RNA was extracted from tissue using the Mag-Bind® Total RNA Kit and analyzed on Agilent's TapeStation® 2200.

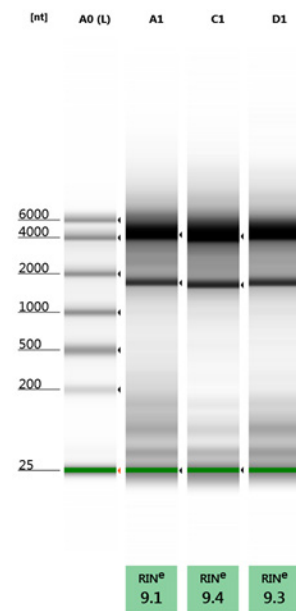
Product Description	Preps	Catalog No.
Mag-Bind® Total RNA 96 Kit	1 x 96	M6731-00
	4 x 96	M6731-01
	12 x 96	M6731-02

RNA Yield From Mouse Liver

Sample	Nucleic Acid Conc. (ng/µL)	260/280	260/230	Yield (µg)
1	142.0	2.03	1.8	14.2
2	125.6	2.04	2.05	12.56
3	152.3	2.04	1.99	15.23
4	132.6	2.03	2.06	13.26
5	124.1	2.01	2	12.41
6	169.9	2.03	1.95	16.99
7	173.3	2.02	1.73	17.33
8	158	2.02	1.78	15.8

10 mg mouse liver was isolated with the Mag-Bind Total RNA Kit according to protocol. Total RNA concentration determined by optical density measurements using Thermo Scientific's NanoDrop 2000c. Total elution volume was 100 µL

RNA Integrity



RNA Integrity. Total RNA was extracted from 1x10⁶ cells using the Mag-Bind Total RNA Kit. The RNA samples were analyzed with RNA tape on Agilent's TapeStation 220.

Mag-Bind® Environmental DNA 96 Kit

REQUEST
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SAMPLE

Isolate DNA from soil and water samples using magnetic beads

- Ceramic Beads pre-aliquoted in a convenient 96-well format for sample homogenization
- Unique inhibitor removal reagent
- Automation Friendly

The Mag-Bind® Environmental DNA 96 Kit allows rapid and reliable isolation of high-quality DNA from soil and water samples. The Mag-Bind Environmental DNA 96 Kit can isolate microbial DNA from yeast, fungi, and gram-positive or negative bacteria. Up to 96 one hundred mg soil samples can be processed in 120 minutes using automated liquid handlers or magnetic processors. Omega Bio-tek's unique cHTR Reagent effectively removes humic acid and other PCR inhibitors allowing for purified DNA to be suitable for PCR, 16S sequencing, Whole Genome Sequencing, and Next Generation Sequencing. There are no organic extractions thus reducing plastic waste and hands-on time to allow multiple samples to be processed in parallel.

Features	Specifications
Sample Type	Yeast, fungi, and gram-positive or negative bacteria
Starting Amount	Up to 250 mg soil or 1 water filter
Elution Volume	50-100 µL
Yield	Dependant on sample biomass
Processing Mode	Manual or Automated
Throughput	96
Nucleic Acid Binding Technology	Magnetic Beads
Downstream Application	qPCR, PCR, Next Generation Sequencing

Soil Protocol DNA Yield and Purity

Sample ID	Yield (µg)	A260/A280	A260/A230
Omega Bio-tek	3.16	1.86	1.11
	3.15	1.84	1.21
	2.92	1.91	0.08
	2.91	0.851	0.20
Comapny Q	1.4	1.33	0.58
	1.41	0.4	0.65

DNA yields and absorbance ratios using kits from Omega Bio-tek and Company Q following soil protocol.

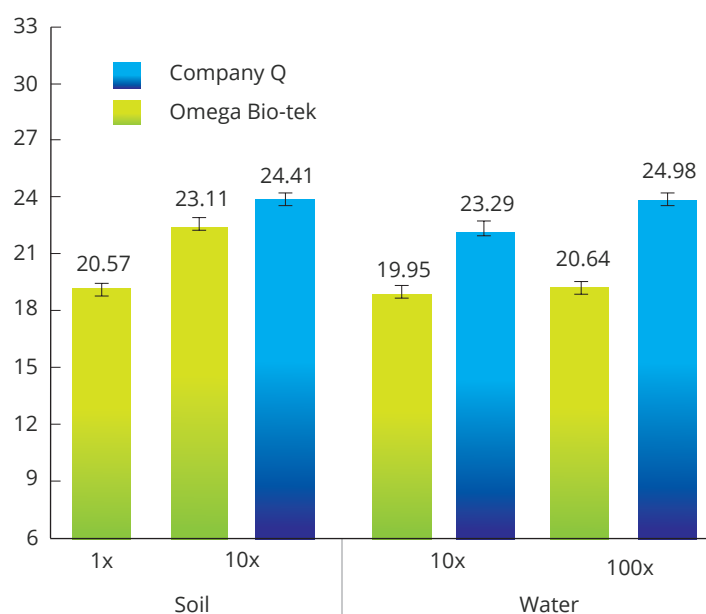
Water Protocol DNA Yield and Purity

Sample ID	Yield (µg)	A260/A280	A260/A230
Omega Bio-tek	5.71	1.86	1.36
	6.80	1.89	1.33
	5.98	1.87	1.09
	5.78	1.87	1.95
Company Q	2.90	1.77	1.84
	3.51	1.78	1.88
	3.02	1.80	1.84
	3.38	1.80	1.90

DNA yields and absorbance ratios using kits from Omega Bio-tek and Company Q following water protocol.

Product	Preps	Cat. No.
Mag-Bind® Environmental DNA 96 Kit	1x96	M5645-00
	4x96	M5645-01

Average Ct Values at Different Dilutions



Average Ct values obtained after amplifying the purified DNA from Omega Bio-tek and Company Q's kits with *B. subtilis* specific primers following soil and water protocols.

Mag-Bind® Plant DNA DS 96 Kit

High-throughput DNA isolation from plant seed & leaf tissues using magnetic beads

REQUEST
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SAMPLE

- Isolate DNA from plant samples using magnetic beads
- Straightforward, rapid, and reliable procedure
- Adaptable in most robotic liquid handling platforms

Mag-Bind® Plant DNA DS 96 Kit allows rapid and reliable isolation of high-quality genomic DNA from plants and other tissues that are particularly difficult to lyse or very high in polysaccharide content. The lysis and binding buffers are specifically designed to minimize co-purification of polysaccharides and polyphenols. Up to 96 samples of 50 mg wet tissue (or 15 mg dry tissue) can be processed in parallel in less than 1 hour. The system combines CTAB-based lysis, which eliminates the need for organic solvents, with the convenience of Mag-Bind® particles to eliminate polysaccharides, phenolic compounds, and enzyme inhibitors from plant tissue lysates. This kit is designed for manual or fully automated high-throughput preparation of genomic, chloroplast, and mitochondrial DNA. Purified DNA is suitable for PCR, restriction digestion, Next Generation Sequencing, and hybridization applications. There are no organic extractions, thereby reducing consumables and decreasing hands-on time to allow multiple samples to be processed in parallel.

Features	Specifications
Starting material	Plants and other tissues that are particularly difficult to lyse or very high in polysaccharide content.
Starting Amount	50 mg wet tissue or 15 mg dry tissue
Elution Volume	100-200 µL
Processing Mode	Manual or Automated
Throughput	96
Nucleic Acid Binding Technology	Magnetic Beads
Downstream Application	PCR, restriction digestion, Next Generation Sequencing, and hybridization applications

DNA Yield Comparison from Different Plant Types

Type	Company Q (ng/ mg)	Omega Bio-tek (ng/mg)
Tobacco	12.3	19.4
Peanuts	6.3	52.9
Sunflowers	41.8	89.1
Oranges	4.6	31.2
Switchgrass	21.9	7.9
Peppers	6.9	111.0
Sugarcane	10.5	93.1
Oats	18.4	270.0
Wheat	0.5	152.3
Barley	9.6	198.1
Canola	3.4	59.0
Tomatoes	2.6	120.2
Grapes	1.9	212.4
Alfalfa	17.9	85.2
Corn	4.0	29.8
Sugar beets	20.2	34.0
Soybeans	26.8	25.4
Cotton	30.5	63.5
Potatoes	30.0	206.5
Average	14.8	94.7

DNA was extracted from approximately 50 mg leaf samples following manufacturer's recommended protocols. DNA concentration was determined via fluorescence-based nucleic acid quantification. DNA quantification confirmed via SYBR qPCR (data not shown). Amount of DNA per mg of leaf sample is shown above.

Product Description	Preps	Catalog No.
Mag-Bind® Plant DNA DS 96 Kit	1 x 96	M1130-00
	4 x 96	M1130-01

Mag-Bind® Ultra Pure Plasmid DNA 96 Kit

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Purify endotoxin-free plasmid DNA (<0.1 EU/μg) using magnetic beads

- Purify endotoxin-free plasmid DNA (<0.1 EU/μg) using magnetic beads

The Mag-Bind® family of products is an innovative system that radically simplifies extraction and purification of nucleic acids from a variety of sources. Key to the system is Omega Bio-tek's proprietary Mag-Bind® Particle that avidly, but reversibly, binds DNA or RNA under certain optimal conditions allowing proteins and other contaminants to be removed. Nucleic acids are easily eluted with deionized water or low salt buffer.

The Mag-Bind® Ultra Pure Plasmid DNA 96 Kit combines the power of Mag-Bind® technology with the innovative Endotoxin Removal (ETR) technology to deliver high-quality endotoxin-free plasmid DNA in high-throughput format. Yields vary according to plasmid copy number, *E.coli* strain, and conditions of growth, 1 mL of overnight culture in LB medium typically produces up to 15 μg for high-copy plasmid. The purified plasmid can be used directly for automated fluorescent DNA sequencing, such as with BigDye® sequencing chemistry, transfection as well as for other standard molecular biology techniques including restriction enzyme digestion.

Plasmid Yield and Purity

Sample ID	Nucleic Acid Conc. (ng/μL)	260/280	Yield (μg)
1	40.0	1.82	4.00
2	41.0	1.74	4.10
3	40.4	1.75	4.04
4	39.8	1.82	3.98
5	39.2	1.86	3.92
6	38.3	1.83	3.83
7	38.8	1.80	3.88
8	38.7	1.85	3.87
9	38.4	1.82	3.84

9 samples of 1 mL *E. coli* culture transformed with pGEM vector were purified using the Mag-Bind Ultra Pure Plasmid DNA 96 Kit. The elution volume was 100 μL. The DNA concentration was measured with Nanodrop 2000c.

Endotoxin Levels

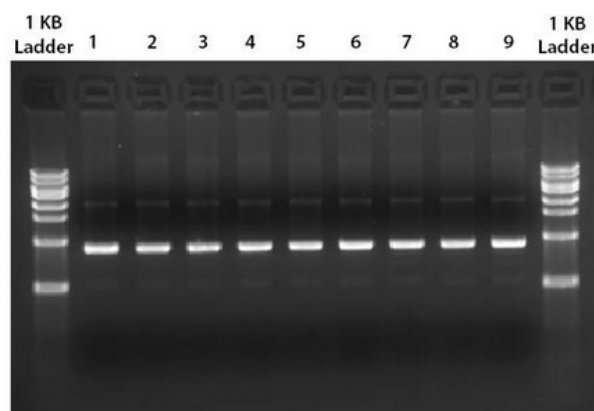
Prep Method	EU/ μg
Mag-Bind Ultra-Pure Plasmid DNA 96 Kit	0.05
Company P Magnetic Bead Plasmid DNA Kit	11.79
Omega Bio-tek E.Z.N.A Plasmid Mini Kit	2.94

Endotoxins in plasmid DNA preps. Plasmid DNA was isolated from 0.8 mL LB cultures following each manufacturer's recommended protocols. Endotoxin levels were determined with Thermo Scientific's Pierce LAL Chromogenic Endotoxin Quantification Kit.

Features	Specifications
Starting material	High-copy, low-copy, cosmid DNA
Starting Amount	Per well: 1.0-1.5 mL LB culture with OD600 between 2 and 3; or equivalent
Elution Volume	50-100 μL
Processing Mode	Manual or Automated
Throughput	Up to 96
Nucleic Acid Binding Technology	Magnetic Beads
Downstream Application	Sensitive cell line transfection; cloning; sanger sequencing etc.
Lysate clearance method	Centrifugation, Magnetic Beads or 96-well Filter Plate

Product	Preps	Cat. No.
Mag-Bind® Ultra Pure Plasmid DNA 96 Kit	1x96	M1258-00
	4x96	M1258-01

Super Coiled Plasmid DNA



1 mL DH5α cultures transformed with pGEM vector were isolated according to the standard protocol. 5 μL eluate plasmid DNA was analyzed on a 1% Agarose gel.



Omega Bio-tek Inc.
400 Pinnacle Way, Suite 450
Norcross, GA 30071

www.omegabiotek.com

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