

E.Z.N.A.[®] DNA and RNA purification kits

Essential DNA and RNA purification kits for everyday lab research

QUALITY

COST SAVINGS

CUSTOMIZATION

DIVERSE



 **omega**
BIO-TEK

innovations in nucleic acid isolation

Innovations in nucleic acid isolation

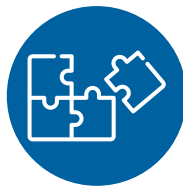
With a diverse portfolio of over 500+ products, Omega Bio-tek has been at the forefront of the nucleic acid purification realm by providing innovative solutions for clinical and basic research, diagnostics, biotechnology and agricultural applications. Extracting high quality DNA or RNA is the first crucial step in most workflows and is critical for determining the success of any downstream application. Our goal is to equip customers with quality products to improve their workflows and help them obtain faster, better results. We also offer individual components and customizable solutions to help customers reduce waste and increase productivity. Contact one of our specialists to see which product would best fit your application.

Quality is key to operations at Omega Bio-tek. We offer products for manual and automated processing and we support our customers by having Hamilton Microlab® STAR™/NIMBUS™, Beckman Coulter Biomek® FX and Thermo KingFisher® instruments in-house. We are ISO 9001: 2008 certified and we ensure that our products are properly assembled, tested, recorded, stored, and shipped. We perform rigorous quality checks on our products and thoroughly train our employees to ensure compliance. We also have several quality control steps within our processes to deliver the best product. We firmly believe that *quality in equals quality out*.



Economical

On an average, Omega Bio-tek's products cost 30% less than the competition.



Customizable

For large customers, we can generate custom packaging, kits, reagents, etc.



Individual Components

We sell kit components separately.



Product Range

Alternative options for almost all of your nucleic acid purification needs.

E.Z.N.A.® Plasmid DNA Mini Kit

Isolation of 30 µg high quality plasmid DNA from 1-5 mL bacterial cultures



Rapid

Purification of plasmid DNA in 30 minutes or less



Versatile

Columns designed for spin or vacuum processing



Quality

DNA is suitable for various downstream applications



Safe

No phenol/chloroform extractions

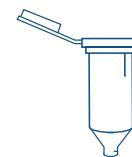
The E.Z.N.A.® Plasmid DNA Mini Kit I is designed to isolate up to 30 µg of high quality plasmid DNA from 1-5 mL of bacterial cultures in 30 minutes or less. This kit uses a modified alkaline lysis method to lyse the cells and separate genomic DNA from plasmid DNA. Plasmid DNA purification is further simplified by using our HiBind® mini column technology in 3 quick steps: bind, wash and elute. Purified plasmid DNA is ready for a wide variety of downstream applications, including routine screening, restriction enzyme digestion, DNA sequencing, cloning, transformation, and transfection.

Available Formats

The E.Z.N.A.® Plasmid DNA Mini Kit I is available with 2 different types of columns: V-spin columns have an attached cap (D6943), while Q-spin columns are capless (D6942). The columns are otherwise identical in use and application. Either column can be used with both the vacuum or centrifugation protocols.

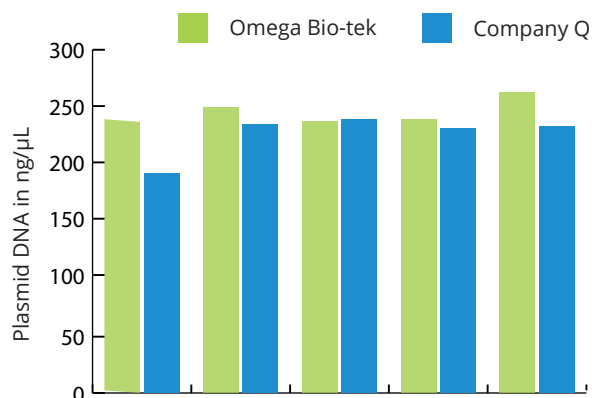


Q-spin (capless)



V-spin (attached cap)

DNA Concentration Comparison



4 mL DH5a cultures were transformed with pGEM vector according to manufacturer's recommended protocols. Plasmid DNA concentration was determined by optical density measurements with Thermo Scientific's NanoDrop® 2000c. Total elution volume was 50 µL.

Plasmid Quality Assessment

Sample ID	A_{260}/A_{280}	Contiguous Read Length (CRL) on Sanger sequencing	QV20+
1	1.87	911	920
2	1.89	899	908
3	1.91	888	884
4	1.88	897	908
5	1.85	899	900
6	1.85	906	911
7	1.86	900	911
8	1.87	904	914
9	1.87	895	907
10	1.87	895	910
11	1.89	891	899
12	1.87	909	917

pGEM plasmid was purified from 1 mL of DH5a cultures following Omega Bio-tek's E.Z.N.A.® Plasmid DNA Mini Kit I (Q-spin) protocols with a 50 µL elution volume. Plasmid DNA absorbance ratios were determined using Thermo Scientific's NanoDrop® 2000c. Purified plasmid samples had an average CRL of 899.5 bp and an average of 907 bases with a Phred score greater than 20 ($\leq 1\%$ probability of error in base calling).

Product Description	Preps	Catalog No.
E.Z.N.A.® Plasmid DNA Mini Kit I (Q-spin, capless)	5	D6942-00
	50	D6942-01
	200	D6942-02

E.Z.N.A.® Plasmid DNA Midi & Maxi Kits

Purification of high quality plasmid DNA using spin column technology



Rapid

Purification of plasmid DNA in 60 minutes or less



Versatile

Columns designed for spin or vacuum processing



Quality

DNA is suitable for various downstream applications



Safe

No phenol/chloroform extractions

The E.Z.N.A.® Plasmid DNA Midi & Maxi Kits can isolate up to 200 µg from a 50 mL bacterial culture, or 1 mg from a 200 mL culture, respectively. These kits use a modified alkaline lysis method to lyse the cells and separate genomic DNA from plasmid DNA. Cellular debris is removed by centrifugation, and the cleared lysate is applied to a HiBind® DNA column, which eliminates time consuming steps such as isopropanol precipitation. Plasmid DNA is suitable for automated fluorescent DNA sequencing, restriction endonuclease digestion, transfection of mammalian cells, and many other downstream applications.

Plasmid DNA Yields from E.Z.N.A.® Kits

E.Z.N.A.® Plasmid DNA Midi Kit				
Sample	Culture Size (mL)	A ₂₆₀ /A ₂₈₀	A ₂₆₀ /A ₂₃₀	Yield (µg)
1	50	1.89	2.31	192.9
2	50	1.90	2.40	189.0
3	50	1.90	2.39	190.0
4	50	1.90	2.39	187.4
E.Z.N.A.® Plasmid DNA Maxi Kit				
Sample	Culture Size (mL)	A ₂₆₀ /A ₂₈₀	A ₂₆₀ /A ₂₃₀	Yield (µg)
1	250	1.90	2.29	715.2
2	250	1.90	2.34	697.0
3	250	1.90	2.35	706.5
4	250	1.90	2.32	701.3

DH5α cells were transformed with pGEM vector, and replicate bacterial cultures were grown in either 50 mL or 250 mL of LB broth for 24 hours. The E.Z.N.A.® Plasmid Midi Kit was used to isolate plasmid DNA from the 50 mL cultures and the E.Z.N.A.® Plasmid Maxi Kit was used to isolate plasmid DNA from the 250 mL cultures. Yield was determined by optical density measurements with the NanoDrop® 2000c.

Product Description	Preps	Catalog No.
E.Z.N.A.® Plasmid DNA Midi Kit	D6904-00	2
	D6904-03	25
	D6904-04	100

Product Description	Preps	Catalog No.
E.Z.N.A.® Plasmid DNA Maxi Kit	D6922-01	5
	D6922-02	25
	D6922-04	100

E.Z.N.A.[®] FastFilter Plasmid DNA Midi & Maxi Kits

Isolation of 200 µg high quality plasmid DNA in less than 40 minutes



Rapid

Purification of plasmid DNA in 40 minutes or less



Lysate Clearing Syringe

Allows for faster processing



Quality

DNA is suitable for various downstream applications

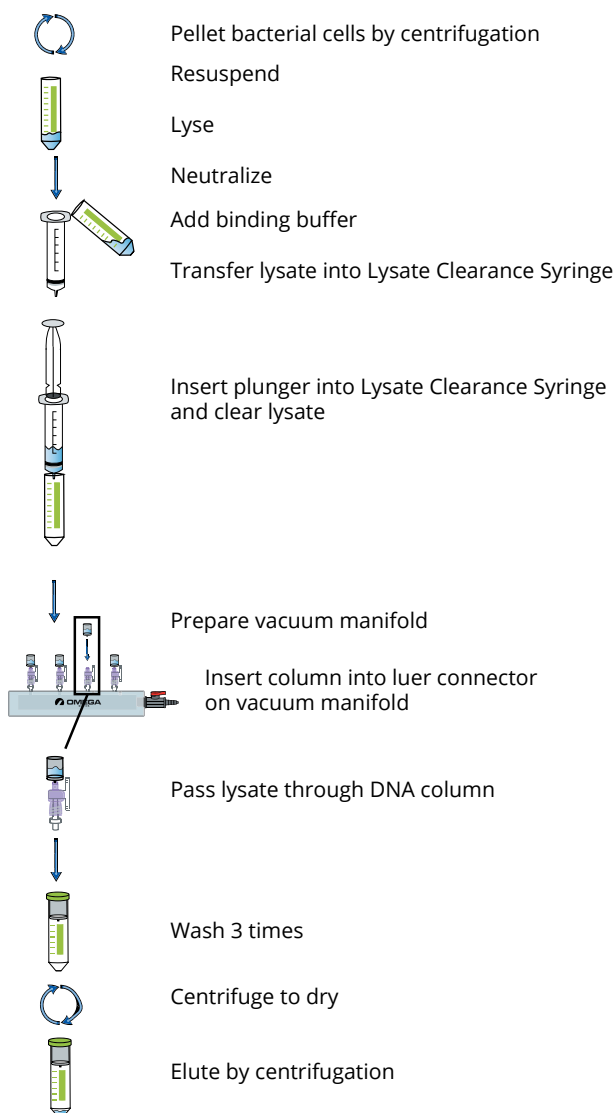


Safe

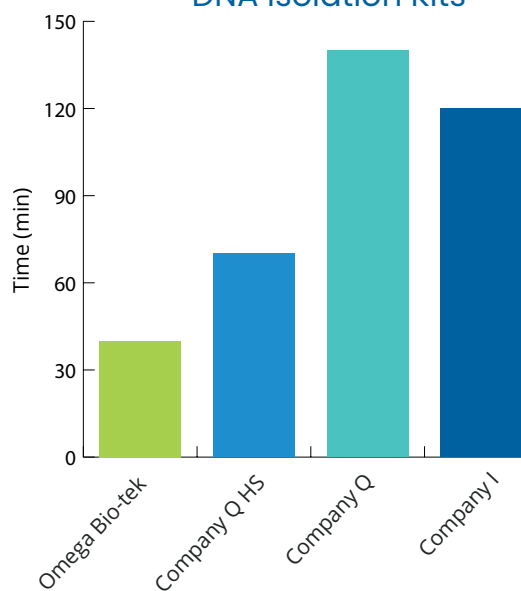
No phenol/chloroform extractions

The E.Z.N.A.[®] FastFilter Plasmid DNA Midi & Maxi Kits combine the power of HiBind[®] technology with the time-tested consistency of alkaline-SDS lysis of bacterial cells to deliver high quality plasmid DNA. This system includes a special lysate clearance syringe, which replaces the centrifugation step following alkaline lysis. Plasmid DNA is suitable for many downstream applications including sequencing, restriction digestion, and transfection.

Illustrated Protocol



Processing Time of Plasmid DNA Isolation Kits



Total time in minutes required for plasmid DNA isolation according to manufacturer's recommended protocols for the Omega Bio-tek E.Z.N.A.[®] FastFilter Plasmid DNA Kit and 3 comparable products from competitors.

Product Description	Preps	Catalog No.
E.Z.N.A. [®] FastFilter Plasmid DNA Mini Kit	2	D6905-00
	25	D6905-03
	100	D6905-04
Product Description	Preps	Catalog No.
E.Z.N.A. [®] FastFilter Plasmid DNA Maxi Kit	5	D6924-01
	25	D6924-03
	100	D6924-04

E.Z.N.A.[®] Tissue DNA Kit

Fast & reliable isolation of DNA from a wide variety of sample sources



Rapid

DNA isolation in less than 20 minutes (after lysis)



Reliable

Optimized buffers guarantee pure DNA every time



Quality

Sequence quality DNA preparations

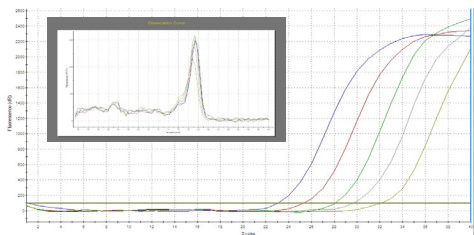


Safe

No phenol/chloroform extractions

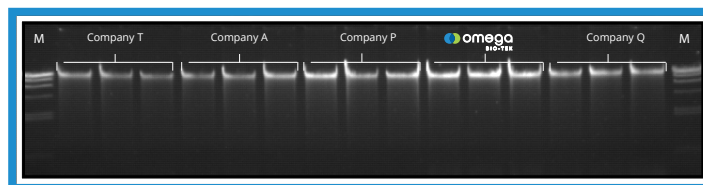
The E.Z.N.A.[®] Tissue DNA Kit offers a simple, rapid and cost-effective method for the isolation of DNA from a wide variety of sample sources, including fresh or frozen animal cells and tissues. After cell lysis, the DNA purification process can be completed in less than 20 minutes. Up to 30 mg of tissue at a time can be easily processed using the simple E.Z.N.A.[®] Tissue DNA protocol. With the spin column-based kit, multiple samples can be processed in parallel. There is no need for phenol/chloroform extractions or time consuming steps such as precipitation with isopropanol or ethanol. DNA purified using the E.Z.N.A.[®] Tissue DNA Kit is ready for most downstream applications such as PCR, Southern blotting, and restriction enzyme digestion.

Real-time PCR of Genomic DNA Isolation with E.Z.N.A.[®] Tissue DNA Kit



Genomic DNA was isolated from 10 mg of rat kidney with Omega Bio-tek's E.Z.N.A.[®] Tissue DNA Kit. Serial dilutions of recovered genomic DNA were used as templates for real-time PCR amplification of a 100 bp fragment of the GAPDH gene with SYBR[®] Green labeling. Each reaction was performed in triplicate. The fluorescence versus cycle number is plotted above and the 5 curves correspond to the input DNA template amounts of 10, 2, 0.4, 0.08, and 0.0016 ng.

Yield Comparison of E.Z.N.A.[®] Tissue DNA Kit



Purified genomic DNA from 10 mg rat kidney tissue was isolated using kits from Company T, Company A, Company P, Company Q and the E.Z.N.A.[®] Tissue DNA Kit following manufacturer's recommended protocols. 3% of eluted DNA was analyzed on a 0.8% agarose gel. M: Lambda-Hind III.

Product Description	Preps	Catalog No.
	5	D3396-00
E.Z.N.A. [®] Tissue DNA Kit	50	D3396-01
	200	D3396-02

E.Z.N.A.® Gel Extraction Kit

Rapid recovery of specific DNA fragments from agarose gels in 15 minutes



Rapid

Purification of DNA fragments from gel in 15 minutes



Versatile

Columns designed for spin or vacuum processing



Quality

DNA is suitable for various downstream applications



Safe

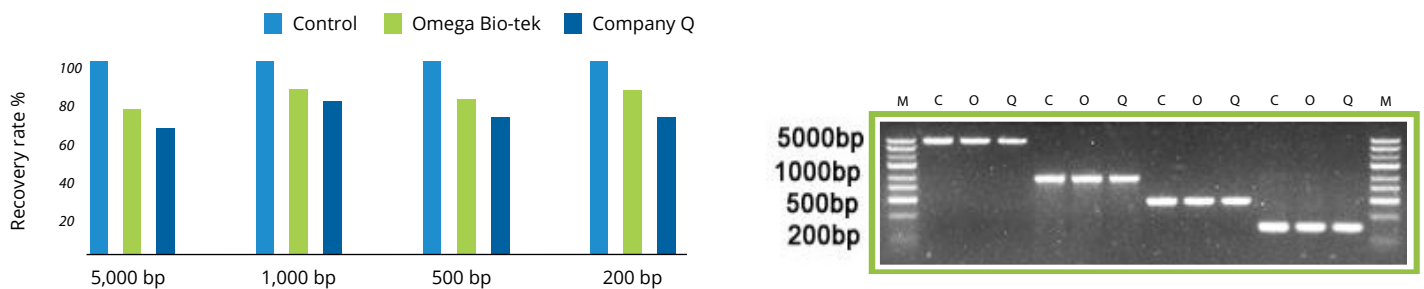
No phenol/chloroform extractions

Gel purification of DNA is a common technique used for the isolation of specific DNA fragments from reaction products. However, most methods either fail to completely remove agarose, causing problems in downstream manipulations, or shear the DNA, resulting in very low yields.

The E.Z.N.A.® Gel Extraction Kit uses HiBind® DNA spin column technology to purify DNA bands 70 bp-20 kb in length from all grades of agarose gels with up to 85% recovery. The DNA band of interest is excised from the gel, dissolved in binding buffer, and applied to a HiBind® DNA spin column. Following 3 wash steps, DNA is eluted with deionized water or elution buffer and is ready for downstream applications such as ligations, PCR amplification, restriction enzyme digestion, and various labeling reactions. This kit can also be used to purify DNA fragments from PCR products and enzymatic reactions.

The E.Z.N.A.® Gel Extraction Kit is available with 2 different types of columns: V-spin columns have an attached cap, while Q-spin columns are capless. The columns are otherwise identical in use and application. Either column can be used with both the vacuum or centrifugation protocols.

Recovery Rate of Excised DNA vs. Company Q



Percent recovery of 4 different sizes of DNA bands from a 2% agarose gel with the E.Z.N.A.® Gel Extraction Kit (O, green) and a comparable kit from Company Q (Q, dark blue) according to manufacturer's recommended protocols. The original input amounts of DNA (C, light blue) were normalized in 100% and the amount of DNA recovered was determined by optical density measurements with Thermo Scientific's NanoDrop® 2000c.

Product Description	Preps	Catalog No.
E.Z.N.A.® Gel Extraction Kit (V-spin, attached cap)	5	D2500-00
	50	D2500-01
	200	D2500-02

Product Description	Preps	Catalog No.
E.Z.N.A.® Gel Extraction Kit (Q-spin, capless)	50	D2501-01
	200	D2501-02

E.Z.N.A.® Cycle Pure Kit

Rapid purification of single- or double-stranded DNA from PCR or other enzymatic reactions



Rapid

Purification of PCR products in 10 minutes



Versatile

Columns designed for spin or vacuum processing



Quality

DNA is suitable for various downstream applications



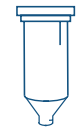
Safe

No phenol/chloroform extractions

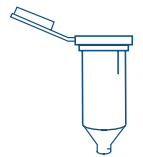
The E.Z.N.A.® Cycle Pure Kit is designed for the rapid purification of single- or double-stranded DNA from PCR or other enzymatic reactions. The purification procedure completely removes primers, nucleotides, enzymes, salts, and other impurities from the DNA sample. The DNA sample is simply mixed with buffer and spun through the HiBind® DNA Column. The DNA bound to the HiBind® matrix is washed and the clean, concentrated DNA is eluted with deionized water or elution buffer. This convenient spin column format eliminates the need for expensive resins or toxic organic compounds such as phenol and chloroform, thereby making it possible to process multiple samples in parallel. Purified DNA can be used in T-A ligations, sequencing, restriction enzyme digestion, and various other labeling reactions.

Available Formats

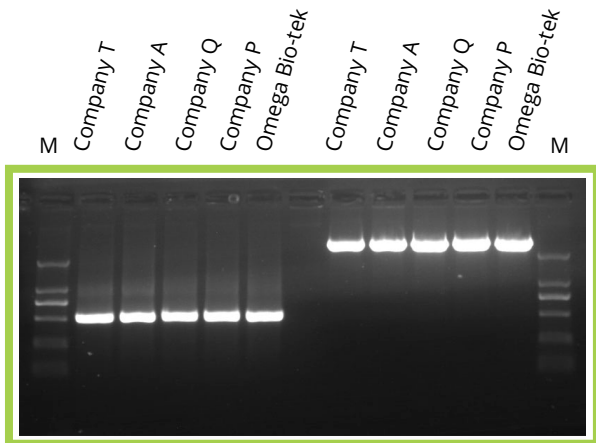
The E.Z.N.A.® Cycle Pure Kit is available with 2 different types of columns: V-spin columns have an attached cap (D6492), while Q-spin columns are capless (D6493). The columns are otherwise identical in use and application.



Q-spin (capless)



V-spin (attached cap)



Omega Bio-tek's E.Z.N.A.® Cycle Pure Kit vs. the Competition

PCR products in 2 sizes (500 bp and 5 kb) were purified with 4 different competitor's kits and Omega Bio-tek's E.Z.N.A.® Cycle Pure Kit. 10% of eluted product was analyzed on a 0.8% agarose gel and run with a DL2000 marker.

Product Description	Preps	Catalog No.
E.Z.N.A.® Cycle Pure Kit (V-spin, attached cap)	5	D6492-00
	50	D6492-01
	200	D6492-02

Product Description	Preps	Catalog No.
E.Z.N.A.® Cycle Pure Kit (Q-spin, capless)	50	D6493-01
	200	D6493-02

E.Z.N.A.[®] Total RNA Kit I

Isolation of up to 100 µg of total RNA from cultured eukaryotic cells & soft tissues



Rapid

RNA isolation in 20 minutes or less



Versatile

Columns designed for spin or vacuum processing



Quality

High quality RNA suitable for downstream applications



Safe

No organic extractions

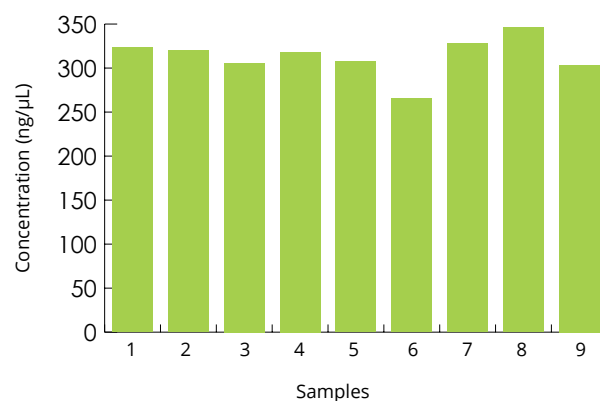
The E.Z.N.A.[®] Total RNA Kit I provides a simple and rapid method for the isolation of up to 100 µg total RNA from cultured eukaryotic cells and soft tissues. This kit enables simultaneous processing of multiple samples in less than 20 minutes. Typically, up to 1×10^7 eukaryotic cells or 30 mg tissue can be used in a single reaction. Many different sample types can be used, including kidney, liver, heart, spleen, lung, pancreas, thymus, HeLa cells, HEK-293 cells, and HINT3T3 cells. Purified RNA can be used in many downstream applications such as RT-PCR, qRT-PCR, Northern blotting, nuclease protection assay, microarrays, *in vitro* translation, and next-generation sequencing.

Expected RNA Yield from Various Samples

Source	Sample Size	RNA Yield (µg)
Brain	10 mg	10
Kidney	10 mg	30
Liver	10 mg	45
Heart	10 mg	5
Spleen	10 mg	33
Lung	10 mg	12
Pancreas	10 mg	40
Thymus	10 mg	20
IC-21	1×10^6 cells	12
HeLa	1×10^6 cells	15
HEK-293	1×10^6 cells	10
HIN3T3	1×10^6 cells	15

Expected RNA yields from tissue samples and cultured cell types with the E.Z.N.A.[®] Total RNA Kit I.

Total RNA Concentration Extracted Using E.Z.N.A.[®] Total RNA Kit I



Total RNA was isolated from 2.5×10^6 HEK-293 cultured cells with Omega Bio-tek's E.Z.N.A.[®] Total RNA Kit I with an elution volume of 50 µL. RNA concentrations were quantified with Thermo's NanoDrop[®] 2000c.

Product Description	Preps	Catalog No.
E.Z.N.A. [®] Total RNA Kit I	5	R6834-00
	50	R6834-01
	200	R6834-02

E.Z.N.A.® Plant DNA DS Kits

Isolation of genomic DNA from leaf & seed tissue with high amounts of polysaccharides & polyphenols



Robust Lysis

Reliable results from a variety of plant samples



Homogenizer Columns

Better homogenization reducing lysate viscosity for higher yields



High Yielding DNA

DNA is suitable for various downstream applications



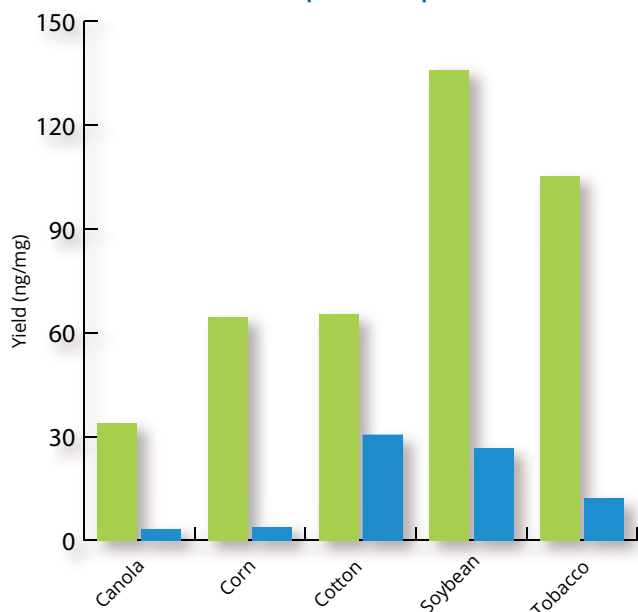
Safe

No organic extractions

The E-Z 96® and E.Z.N.A.® Plant DNA DS Kits are designed for the efficient recovery of genomic DNA up to 30 kb in size from fresh, frozen or dried plant tissue samples rich in polysaccharides, polyphenols, or those with a lower DNA content. Up to 50 mg wet tissue (or 15 mg dry tissue) can be processed in less than 1 hour. These systems combine the reversible nucleic acid-binding properties of the HiBind® matrix with the speed and versatility of spin column technology to eliminate polysaccharides, phenolic compounds, and enzyme inhibitors from plant tissue lysates. Purified DNA is suitable for PCR, restriction enzyme digestion and hybridization applications.

These procedures rely on the well-established properties of the cationic detergent, cetyltrimethyl ammonium bromide (CTAB), in conjunction with the unique binding system to increase yields and provide high quality DNA. The system eliminates the need for chloroform extractions traditionally associated with CTAB-based lysis methods. Samples are homogenized and lysed in a high salt buffer containing CTAB and with binding conditions optimized, DNA is purified using a HiBind® DNA mini column. Salts, proteins, and other contaminants are removed to yield high quality genomic DNA suitable for downstream applications such as endonuclease digestion, thermal cycle amplification, and hybridization applications.

Comparison of DNA Yields from Multiple Crops



40-50 mg of respective leaf tissue was extracted in triplicate according to the manufacturer's recommended protocols and eluted in 100 µL. DNA was analyzed using fluorescent DNA-based quantification method. Total yield was divided by total tissue amount to show ng of DNA per mg of leaf tissue.

Product Description	Preps	Catalog No.
E.Z.N.A.® Plant DNA DS Kit	5	D2411-00
	50	D2411-01

Product Description	Preps	Catalog No.
E-Z 96® Plant DNA DS Kit	1 x 96	D1411-00
	4 x 96	D1411-01

E.Z.N.A.® Viral RNA Kit

Isolation of viral RNA from acellular fluids such as plasma, serum, urine, etc.



Rapid

Viral RNA isolation in 20 minutes or less



Versatile

Columns designed for spin or vacuum processing



Quality

Inhibitor-free viral RNA for demanding downstream applications

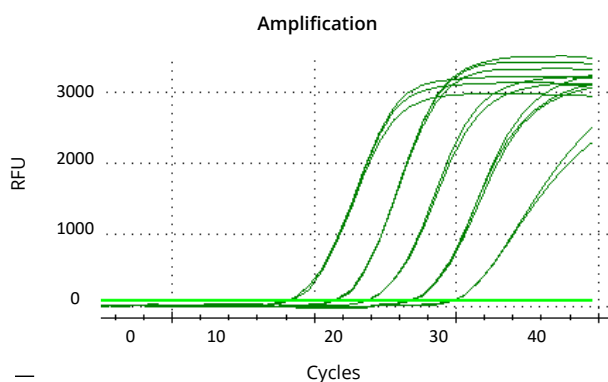


Safe

No organic extractions

The E.Z.N.A.® Viral RNA Kit is designed for the isolation of viral RNA and DNA from acellular fluids such as plasma, serum, cell culture supernatant and urine. This kit can also be used to isolate genomic DNA and total RNA. The procedure completely removes contaminants and enzyme inhibitors making viral RNA isolation fast, convenient and reliable when cellular sample sources are used. RNA purified using the E.Z.N.A.® Viral RNA method is ready for all downstream applications such as RT-PCR and qPCR. This kit has been validated for isolating viral nucleic acids from Hepatitis A, B, C and HIV.

Real-time PCR of Viral RNA Isolated with the E.Z.N.A.® Viral RNA Kit



Serum was separated from a human blood sample spiked with 1x10⁷ Hepatitis B viral particles/μL. A 10-fold dilution series of the serum was performed and 50 μL of each dilution was used in the Mag-BIND® Viral RNA/DNA Kit to isolate viral RNA. 2 μL of recovered RNA from each dilution of serum was used as a template in a real-time PCR reaction with SYBR® Green labeling. Each reaction was performed in triplicate. The 5 curves represent the fluorescence versus cycle number for the 5 starting serum concentrations.

RNA Template	C _t Value
	19.90
1x10 ⁷ viral particles/μL	19.88
	19.98
1x10 ⁶ viral particles/μL	23.09
	23.09
	22.99
1x10 ⁵ viral particles/μL	25.48
	25.53
	25.08
1x10 ⁴ viral particles/μL	28.64
	28.56
	28.66
	31.23
1x10 ³ viral particles/μL	31.59
	31.58

Product Description	Preps	Catalog No.
	5	R6874-00
E.Z.N.A.® Viral RNA Kit	50	R6874-01
	200	R6874-02

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