

sample prep

thermo
scientific

applied
biosystems

invitrogen



DNA purification and analysis

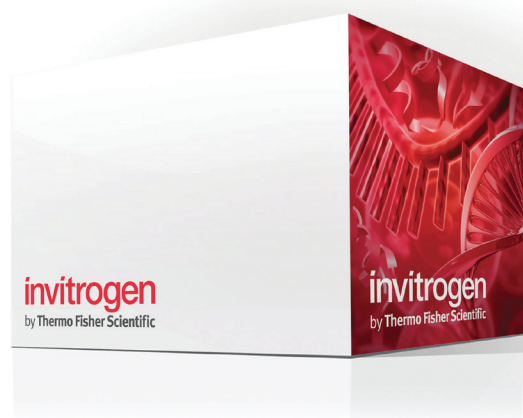
Maximize sample yield, purity, and integrity

ThermoFisher
SCIENTIFIC

Optimized for maximum yield and purity

From plasmid to genomic DNA and from DNA clean-up to automation, Invitrogen™ products bring flexible, innovative solutions to meet virtually every researcher's needs.

Explore the Invitrogen™ portfolio of leading solutions, kits, and benchtop devices for reliable results.



Tools for success in your
molecular biology research

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Purification technology overview

A variety of purification technologies and chemistries to meet your purity needs

We bring a large portfolio of purification kits to suit all your nucleic acid purification needs. From plasmid DNA to genomic DNA, you'll find what you're looking for. Invitrogen™ nucleic acid purification products are optimized to provide maximum yield, purity, and integrity from virtually any sample type and application. We offer a wide range of

specialized nucleic acid purification products based on three highly developed purification technologies: silica membrane, anion-exchange resin, and switchable surface charge. Let us help you determine which plasmid or genomic DNA (gDNA) purification kit is appropriate for your needs.

Genomic DNA product selection guide

Overview	Low throughput or manual	Medium throughput and spin-column technology	High throughput and 96-well filter plate	High throughput and magnetic-bead technology
Type	Organic	Spin column	Spin column	Magnetic beads
Product name	DNAzol™ Reagent	PureLink™ kits	PureLink™ <i>Pro</i> gDNA kits	MagMAX™ DNA kits
Tissue	DNAzol Reagent	PureLink gDNA Mini	PureLink <i>Pro</i> 96 gDNA	MagMAX DNA Multi-Sample
Cells				
Blood	DNAzol BD Reagent			MagMAX DNA Multi-Sample Ultra
Plant	Plant DNAzol Reagent	PureLink gDNA Plant		MagMAX Plant DNA Isolation
Buccal swabs	Not recommended	PureLink gDNA Mini		
Bacteria	DNAzol Reagent			MagMAX DNA Multi-Sample Ultra
Viral	Not recommended	PureLink Viral RNA/DNA Mini	PureLink <i>Pro</i> 96 Viral RNA/DNA	MagMAX Viral Nucleic Acid
Scalable or automatable	No	No	Yes	Yes
Compatible with the KingFisher system	No	No	No	Yes
qPCR	Yes	Yes	Yes	Yes
NGS	Yes	Yes	Yes	Yes

Plasmid DNA product selection guide

Overview	Low throughput or manual		Low-to-medium throughput and high purity	High throughput and high purity	
Product name	GeneJET™ kit	PureLink™ HiPure and HiPure Filter kits	PureLink™ Expi Endotoxin-Free Kit	PureLink™ Pro Quick96 kit	PureLink™ 96 HQ kit
Purity grade	Molecular	Transfection	Advanced transfection	Molecular	Transfection

Plasmid DNA purification kits

Plasmid DNA that's pure and ready to go

If, during plasmid preparation, your DNA has low recovery, contains impurities, or just doesn't perform in your downstream experiments, you can choose from our wide range of high-performing plasmid purification products. We offer a portfolio of plasmid purification products that support your downstream applications from cloning to transfection of sensitive cell lines. Table 1 shows a variety of formats of the Invitrogen™ PureLink™ purification product lines, offering high yields with extremely low endotoxin levels for maximized downstream results. Kits that include these technologies are designed to isolate plasmid DNA at the purity and scale you need.

Which plasmid DNA isolation technology is right for you?

Purity grade	Molecular	Transfection	Advanced transfection
Kits	GeneJET	PureLink HiPure	PureLink Expi Endotoxin-Free
Endotoxin level	Standard (1–10 EU/μg)	Low endotoxin (0.1–1 EU/μg)	Endotoxin-free (<0.1 EU/μg)
Yield up to	20 μg–1 mg	20 μg–15 mg	1.5–15 mg
Downstream application	Not sensitive <ul style="list-style-type: none">• PCR• Cloning (digestion, ligation)• Sequencing• Nucleic acid labeling	Sensitive <ul style="list-style-type: none">• Standard transfections• All molecular biology applications• <i>In vitro</i> transcription	Very sensitive <ul style="list-style-type: none">• Primary and stem cell transfection• Gene therapy and vaccine (<i>in vivo</i>) research• Microinjection• All molecular biology applications
Technology	Silica membrane	Anion exchange (resin)	Anion exchange (membrane)
Total protocol time	15–60 min	30–120 min	90–120 min
Prep size	Mini–maxi	Mini–giga	Maxi, mega, and giga

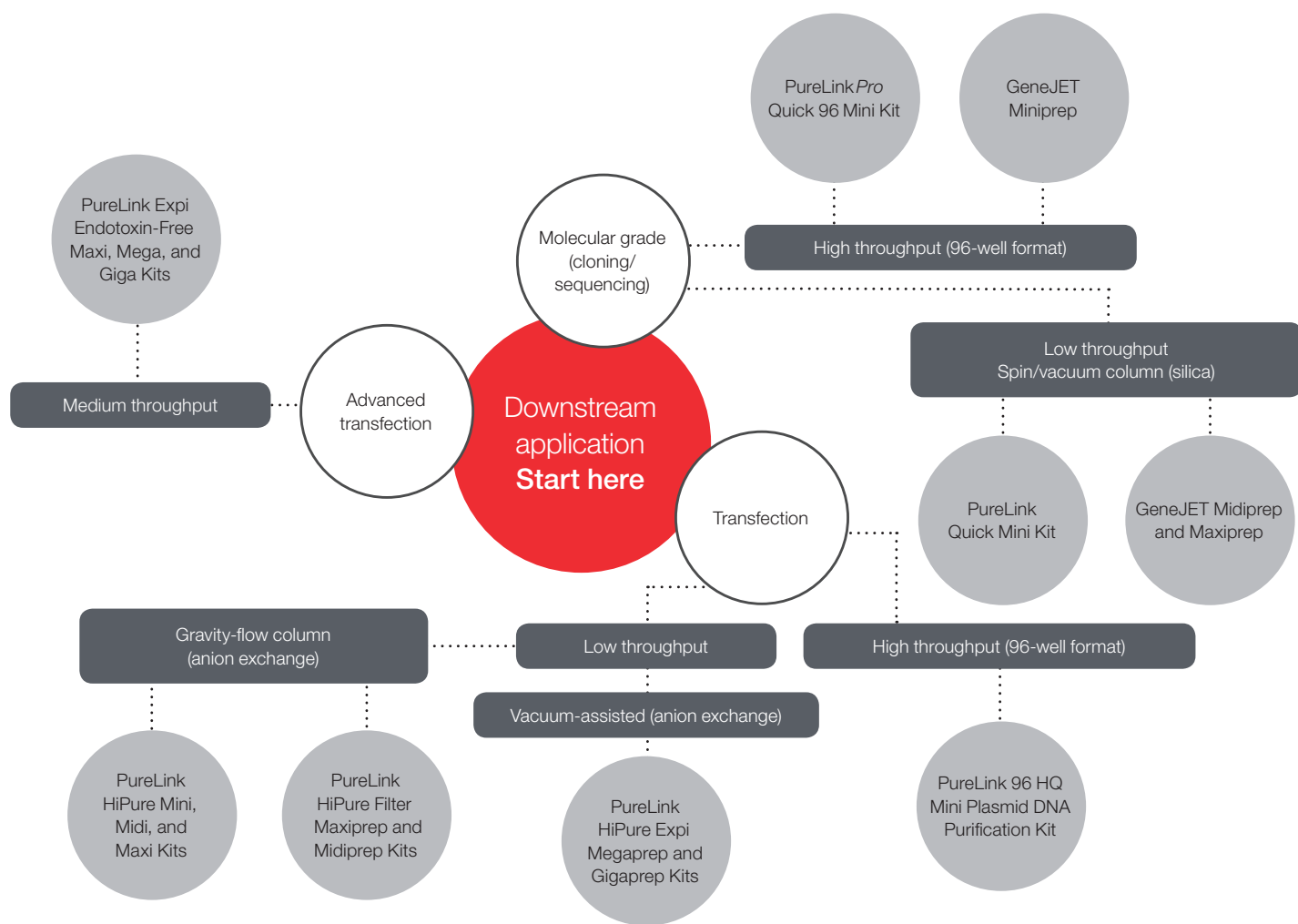


Table 1. Plasmid DNA purification products, prep sizes, and approximate yields.

Prep size	Overnight bacterial culture volume	Approximate yield
Miniprep	1–5 mL	Up to 40 µg
Midiprep	10–50 mL	Up to 300 µg
Maxiprep	100–200 mL	Up to 1 mg
Megaprep	500 mL–2.5 L	Up to 5 mg
Gigaprep	2.5–5 L	Up to 15 mg

For our complete portfolio of plasmid DNA purification products, go to thermofisher.com/plasmidprep

Plasmid DNA purification kits

Fast, easy to use, and cost-effective

The PureLink plasmid purification products have been developed to provide the greatest value for your money. With performance meeting or exceeding competitive offerings (Figure 1), and fair pricing, PureLink technology is the clear choice for plasmid purification in research laboratories.

Invitrogen™ PureLink™ HiPure Expi low-endotoxin plasmid purification kits

Fast, easy-to-use protocols, and an anion-exchange resin allow you to purify plasmid DNA at a quality equivalent to that obtained from purifying plasmid DNA by passing it through a cesium chloride gradient twice—one of the most rigorous methods for plasmid purification. In less than 2 hours, plasmid is pure enough for transfections with no need for additional steps to remove contaminants like RNA, proteins, and endotoxins. Additionally, the use of phenol, chloroform, ethidium bromide, and cesium chloride are eliminated, minimizing exposure to and disposal of hazardous materials.

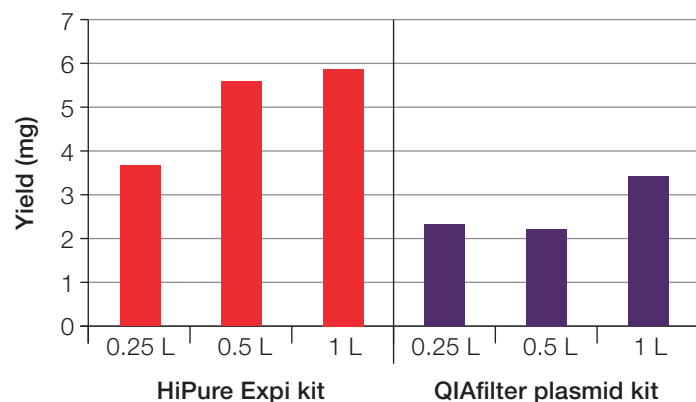


Figure 1. Invitrogen™ PureLink™ HiPure Expi kits, with advanced anion exchange technology, produce superior yields of transfection-quality DNA. Comparison of the total yields of Invitrogen™ pcDNA™ 3.3 plasmid purified using PureLink HiPure Expi technology versus megapreps from another supplier, with increasing bacterial culture volumes.

High yield

Isolate up to 5 mg (megaprep) and up to 15 mg (gigaprep) of high-quality plasmid DNA from a single purification using 0.5–5 L of bacterial culture.

Purity

Achieve inherently low endotoxin levels (typically 0.1–1.0 EU/μg), and $A_{260}/A_{280} > 1.8$, making it ideal for mammalian cell transfection.

Simplicity and speed

With the vacuum-assisted protocol, plasmid isolation typically takes only 90 minutes to complete (Figure 2).

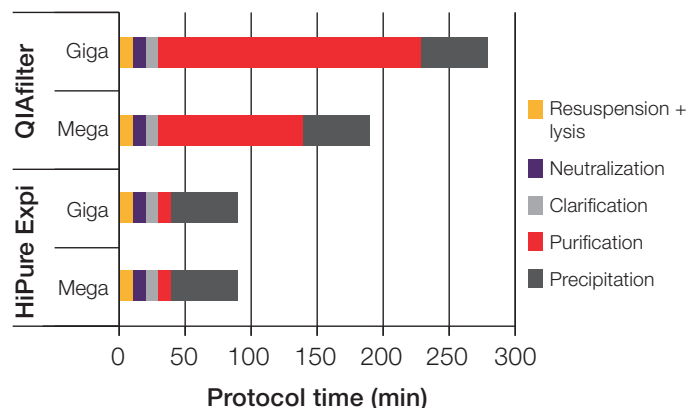
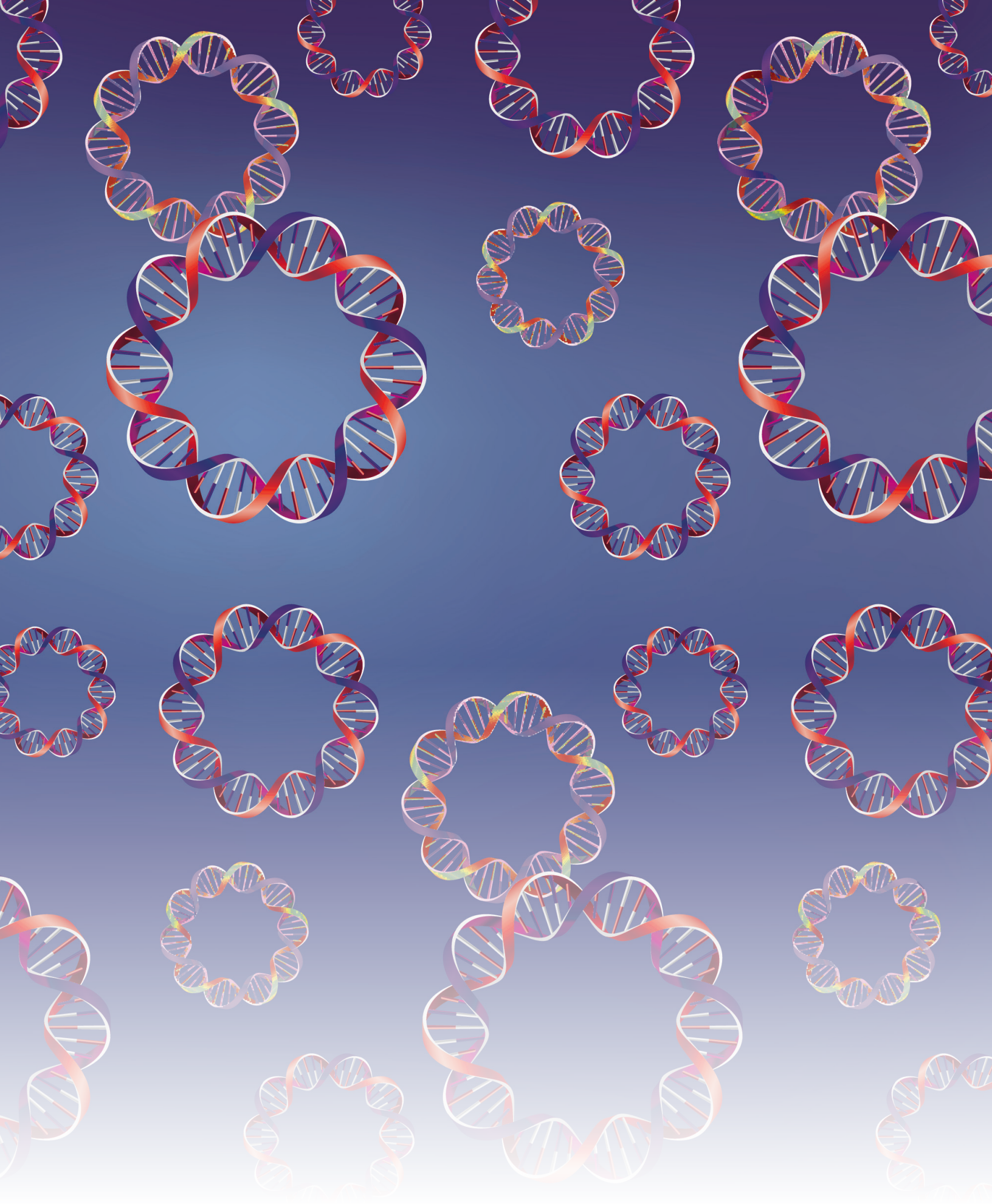


Figure 2. PureLink HiPure Expi kits offer superior yields of ultrapure, transfection-quality plasmid DNA with an accelerated protocol time. The combination of advanced anion exchange technology and vacuum assistance used with PureLink HiPure Expi kits dramatically reduces overall protocol time.



Plasmid DNA purification kits

High throughput, reliable, and reproducible

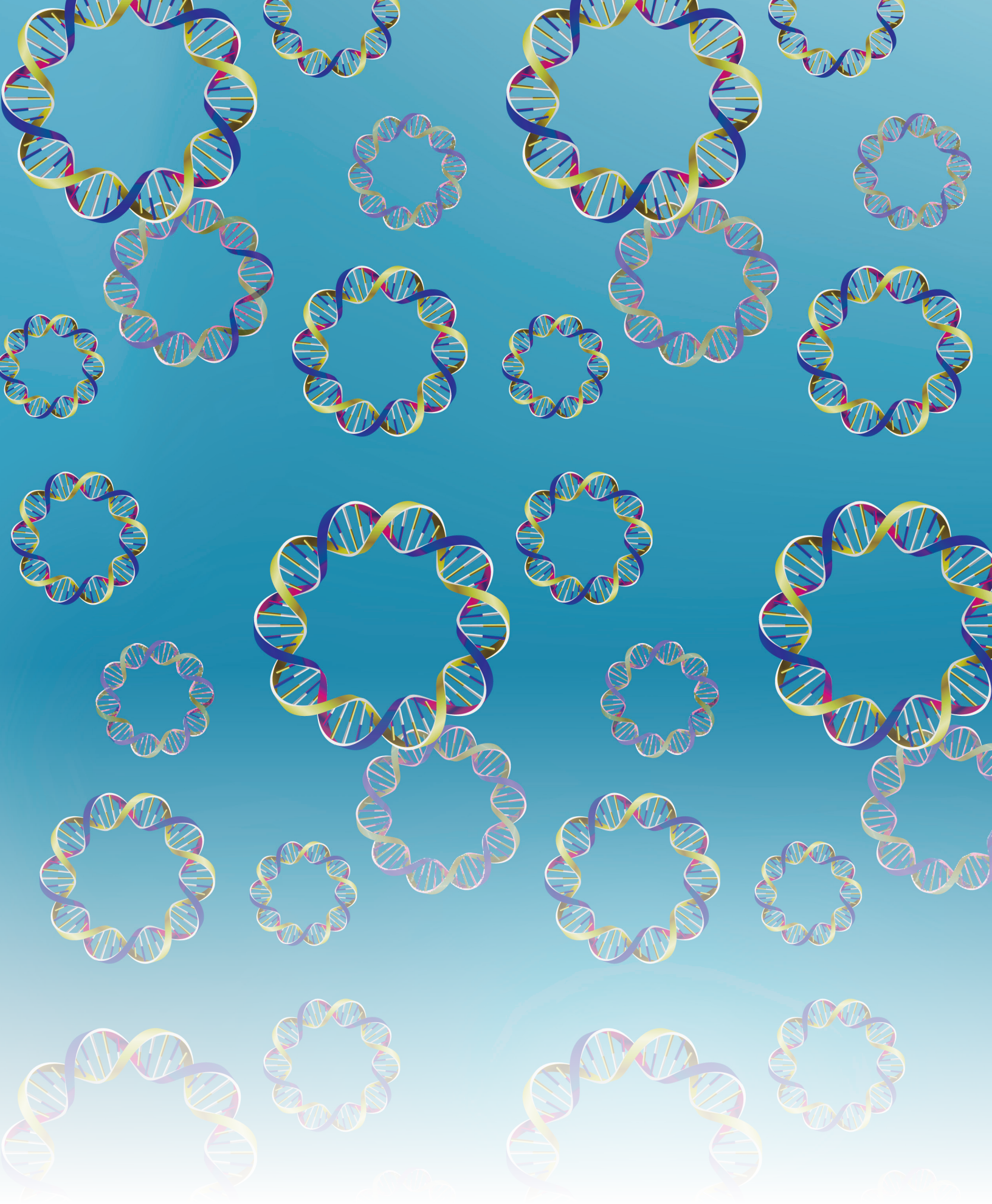
Our mini-scale portfolio of high-throughput plasmid purification products for molecular- and transfection-grade applications provides high-quality plasmid DNA. Technologies include silica membrane columns and 96-well plates, anion exchange columns, and magnetic beads. With the PureLink *Pro* Quick96 Plasmid Kit, the resulting plasmid DNA is >90% supercoiled, with no detectable genomic DNA or RNA (Figure 3).

Which high-throughput PureLink plasmid purification kit is right for you?

	MagJET™ Plasmid DNA Kit	PureLink™ HiPure Plasmid Miniprep Kit	PureLink <i>Pro</i> Quick96 Plasmid Kit	PureLink™ 96 HQ Mini Plasmid DNA Purification Kit
Protocol time	Variable	<90 minutes	45 minutes	Variable
Purity grade	Molecular	Transfection	Molecular	Transfection
Yield of plasmid DNA	Up to 25 µg	Up to 40 µg	Up to 15 µg	Up to 60 µg
High throughput-compatible	Yes	No	Yes	Yes
Technology	Magnetic beads	Anion-exchange resin	Silica-based spin/vacuum plates	Silica-based spin/vacuum plates
Product size	96 preps, 4 x 96 preps	25 preps, 100 preps	4 x 96 preps	4 x 96 preps



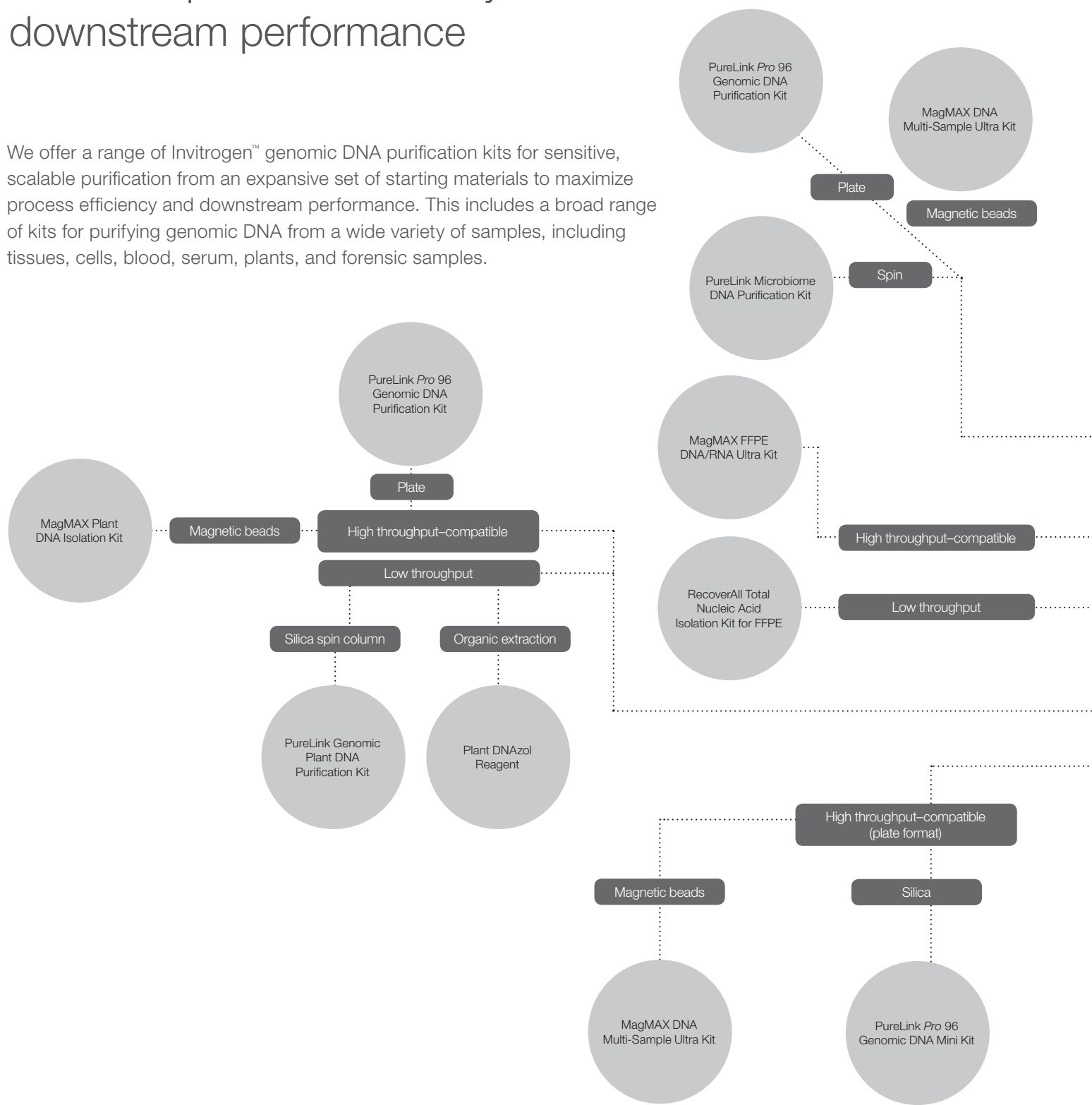
Figure 3. High purity of plasmid DNA isolated using the PureLink *Pro* Quick96 Plasmid Kit. Invitrogen™ pcDNA™ 3.1/His//lacZ plasmid DNA (5 µg), purified using a liquid-handling robot and the PureLink *Pro* Quick96 Plasmid Kit, shows high yields of supercoiled plasmid DNA with no detectable genomic DNA or RNA contamination.



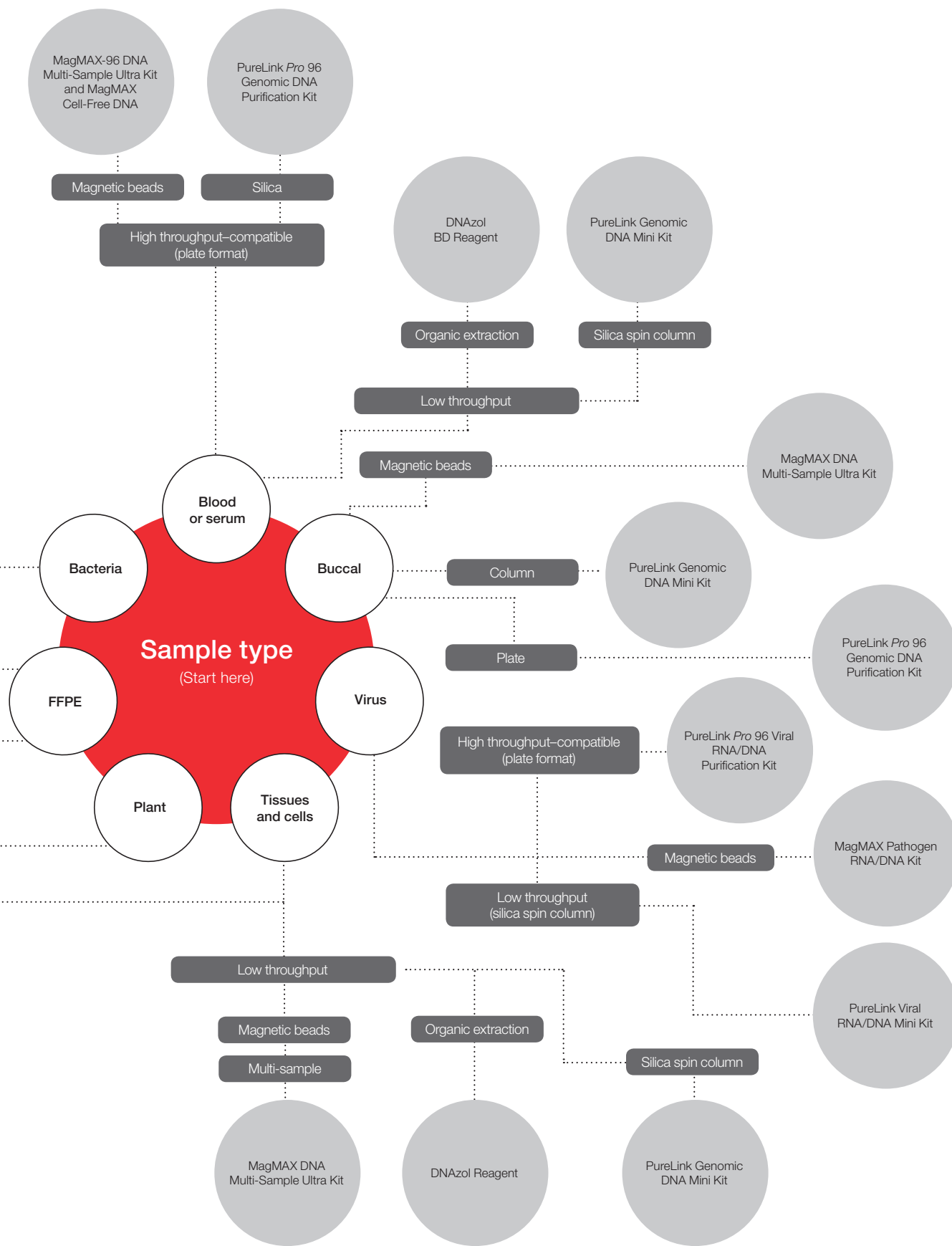
Genomic DNA purification kits

Maximize process efficiency and downstream performance

We offer a range of Invitrogen™ genomic DNA purification kits for sensitive, scalable purification from an expansive set of starting materials to maximize process efficiency and downstream performance. This includes a broad range of kits for purifying genomic DNA from a wide variety of samples, including tissues, cells, blood, serum, plants, and forensic samples.



Find the complete portfolio of genomic DNA purification products at thermofisher.com/gdnaprep



Genomic DNA purification kits— tissue and cell samples

High-yield genomic DNA from tissues and cells

We offer several different kits for purifying genomic DNA from a variety of tissue and cell sample types. We offer a range of genomic DNA extraction kits for sensitive, scalable purification from an expansive set of starting materials to maximize process efficiency and downstream performance. This includes a broad range of kits for purifying genomic DNA from a variety of samples, including tissue and cells, to meet your research needs. The Invitrogen™ PureLink™ Genomic DNA Mini Kit enables high-yield, high-purity genomic DNA (gDNA) extractions from a wide variety of sample types (Figure 4). Use of this kit enables genomic DNA purification from blood, tissues, cells, bacteria, swabs, and blood spots, with a familiar silica-based, microcentrifuge spin-column format.

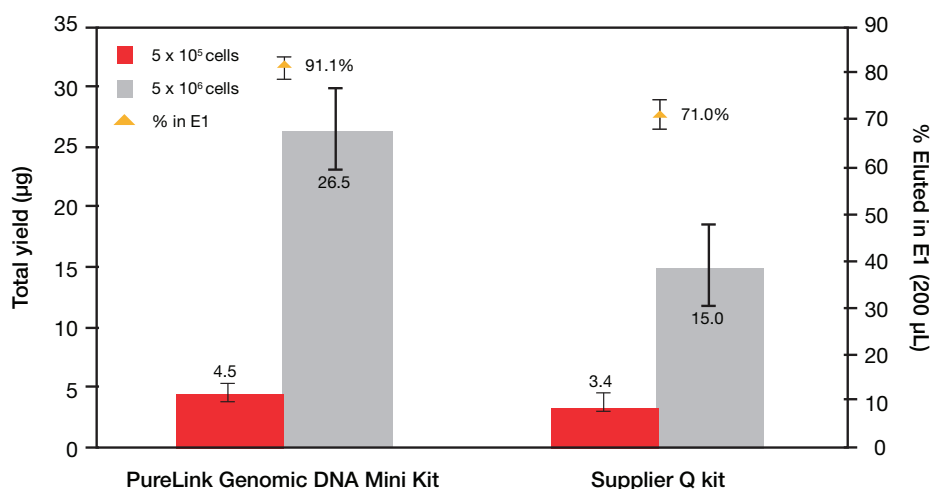


Figure 4. Higher, more concentrated yields achieved with the PureLink Genomic DNA Mini Kit compared to that obtained with another supplier's kit. E1 is referring to the first elution.

Which genomic DNA purification kit is right for your tissue or cell samples?

	DNAzol Reagent	PureLink Genomic DNA Mini	PureLink <i>Pro</i> 96 Genomic DNA	MagMAX™-96 DNA Multi-Sample
	Process the largest amount of tissue	Fast isolation of gDNA from a variety of samples	High-yield, high-purity gDNA in a plate format	Rapid and automated extraction of DNA
Tissue starting material	Up to 50 mg	Up to 25 mg	Up to 25 mg	Up to 25–50 mg, depending on tissue type
Yield	Up to 250 µg from tissue	5–10 µg from tissue	5–10 µg from tissue	10–80 µg from tissue
Isolation method	Organic extraction	Silica spin column	Silica filter plate	Scalable, flexible format with magnetic beads
High throughput-compatible	No	No	Yes	Yes
Compatible applications	Cloning, qPCR, sequencing	Cloning, qPCR, sequencing, genotyping	Cloning, qPCR, sequencing, genotyping	Cloning, qPCR, sequencing, genotyping
Prep time	10–30 min	15 min	35 min	45 min
Prep size	100	50, 250	4 x 96	50, 96, 500, 2,500

Genomic DNA purification kits— blood and serum samples

Rapid and efficient extraction of genomic DNA from human blood and serum

The emergence of pharmacogenomic centers of excellence has resulted in increasing needs for purification of high-quality genomic DNA from a large volume of blood. Since samples are collected and shipped worldwide, every sample may differ with regard to storage and shipping conditions. Choosing the right genomic DNA purification kit is important based on your needs and expected end results. We offer a wide range of kits designed to isolate genomic DNA from your blood or serum samples at the purity and scale you need. Figure 5 shows gel image of gDNA purified from whole blood samples using the Invitrogen™ GeneCatcher™ gDNA Blood Kit.

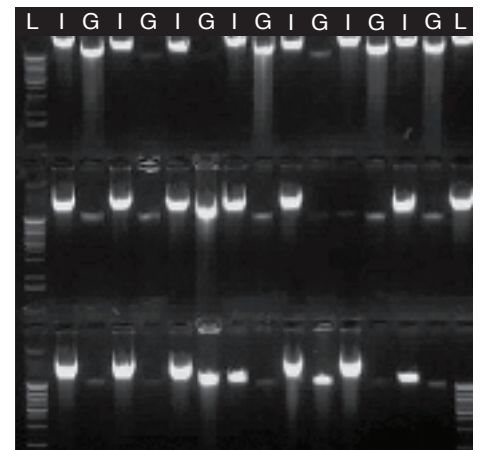


Figure 5. Purification of gDNA from archived whole blood samples using the GeneCatcher gDNA Blood Kit. An 0.8% agarose gel was used to evaluate gDNA extractions from archived whole blood samples (blood samples frozen for >8 years). Blood samples were split into 2 equal aliquots, and gDNA was extracted using the GeneCatcher gDNA Blood Kit and a kit from another supplier G. The GeneCatcher kit extractions employ magnetic beads, while supplier G's kit uses a traditional lysis and DNA precipitation method that has been shown to co-purify agents that are inhibitory to downstream applications. I = GeneCatcher extractions; G = supplier G extractions; L = Invitrogen™ 1 Kb DNA Extension Ladder, largest band 40 kb.



Which genomic DNA purification kit is right for your blood or serum samples?

	DNAzol™ BD	PureLink Genomic DNA Mini	PureLink Pro 96 Genomic DNA	MagMAX-96 DNA Multi-Sample
	Process the largest amount of blood	Fast isolation of gDNA from blood	High-yield, high-purity gDNA in a plate format	Rapid and automated extraction of DNA
Blood input	500 µL	200 µL	200 µL	50 µL–1 mL
Yield	10–20 µg	3–10 µg	3–10 µg	1.5–66 µg
Isolation method	Organic extraction	Silica spin column	Silica filter plate	Scalable, flexible format with magnetic beads
High throughput-compatible	No	No	Yes	Yes
Compatible applications	Cloning, qPCR, sequencing	Cloning, qPCR, sequencing, genotyping	Cloning, qPCR, sequencing, genotyping	Cloning, qPCR, sequencing, genotyping
Prep time	10–30 min	15 min	35 min	45 min
Prep size	100	50, 250	4 x 96	50, 96, 500, 2,500

Plant genomic DNA isolation kits

Successful plant DNA extraction that's easy on you

Plant tissue is difficult enough to work with due to the high levels of polysaccharides and polyphenols present. Therefore, compounding the complexity with tedious, inefficient methods will only prolong the process of isolation. Cetyl trimethyl ammonium bromide (CTAB) methods require excessive time and handling, limiting your throughput. Some silica membrane- and magnetic bead-based protocols don't remove inhibitors inherent in plant samples that can carry over into the final product and interfere with downstream applications. This leads to

frequent sample processing failure, necessitating that you repeat the purification—if you have the time and sample to spare. Now we offer you products specifically designed for easy, high-yield, and high-purity DNA purification from plant samples. Inhibitors are removed for reliable downstream results. Make your DNA isolation from plant samples easier on you and easier on your samples, while achieving high-yield, high-purity results with Invitrogen™ and Applied Biosystems™ plant molecular biology reagents.



Which genomic DNA purification kit is right for your plant samples?

	Plant DNAzol™ Reagent	PureLink™ Genomic DNA Plant Mini	PureLink™ Pro 96 Genomic DNA	MagMAX™ Plant DNA
	Most cost effective	High-quality gDNA at a great value	Fast isolation of gDNA from a variety of plant samples	Rapid and automated extraction of DNA
Plant tissue input	100 mg	100 mg	Up to 25 mg	100 mg
Yield	Varies based on starting material	1–15 µg	5–10 µg from tissue	Varies based on starting material
Isolation method	Organic extraction	Silica spin column	Silica filter plate	Scalable, flexible format with magnetic beads
High throughput– compatible	No	No	Yes	Yes
Compatible applications	Cloning, qPCR, sequencing	Cloning, qPCR, sequencing, genotyping	Cloning, qPCR, sequencing, genotyping	Cloning, qPCR, sequencing, genotyping
Prep time	60 min	40 min	35 min	40 min
Prep size	~330	50	4 x 96	96
Price per prep	\$0.58	\$3.60	\$2.62	\$2.12



Empower your plant science research: go to thermofisher.com/agbio to learn more and to purchase our products and solutions.

Viral genomic DNA purification kits

High-yield genomic DNA from tissue and cells

Purification of viral nucleic acids poses unique challenges for getting good recovery and detection sensitivity. Capture and lysis of virus particles from very dilute solutions or cell-free samples is the first hurdle. We've developed DNA purification products that are optimized to provide maximum viral DNA yield, purity, and integrity from a broad range of sample types in several format options. For example, the Invitrogen™ PureLink™ Quick Gel Extraction Kit allows you to rapidly and efficiently purify DNA fragments (Figure 6) that are high quality and show reliable performance in PCR, restriction enzyme digestion, cloning, and labeling.



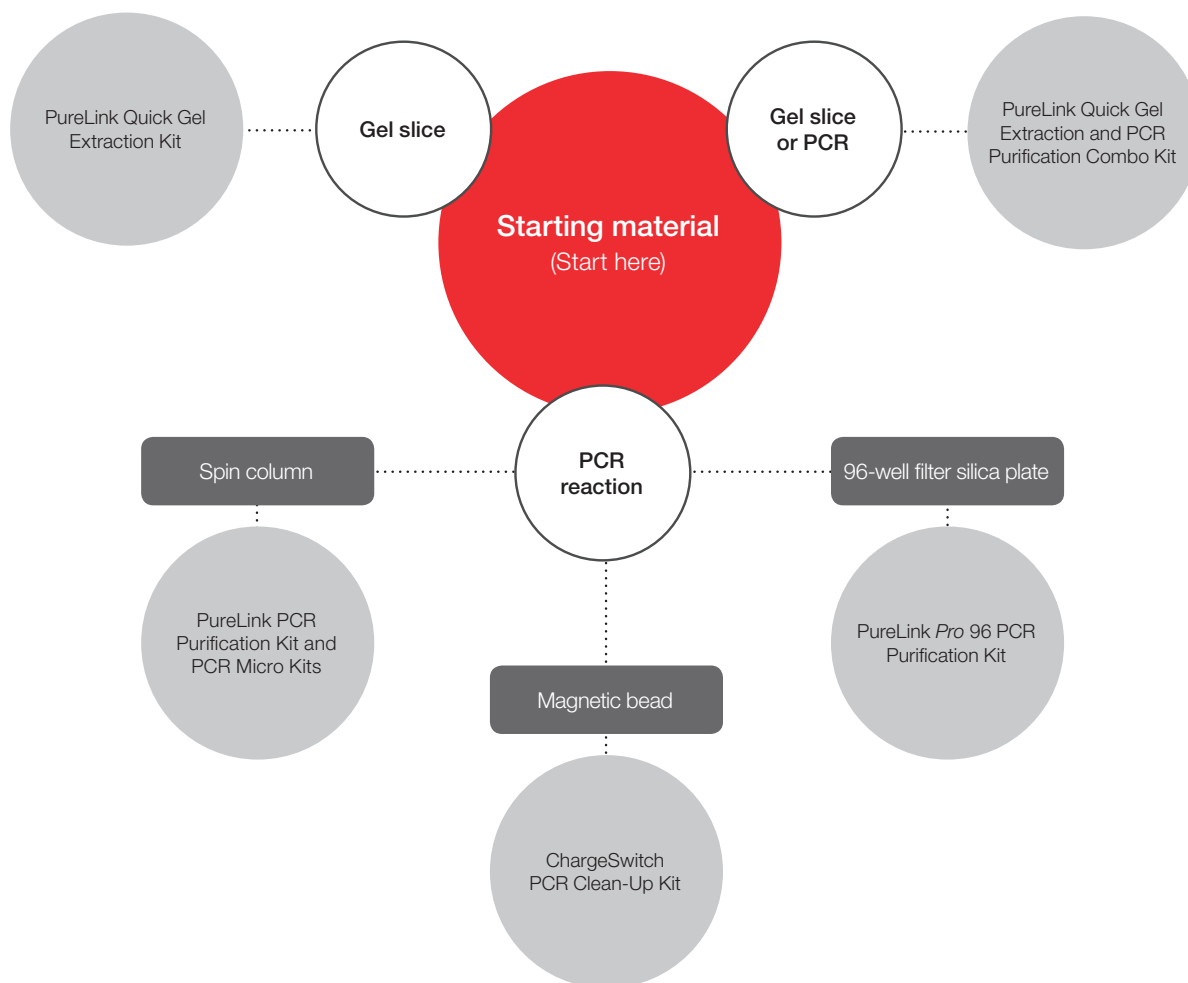
Which genomic DNA purification kit is right for your viral samples?

	PureLink™ Viral RNA/DNA Mini	PureLink™ Pro 96 Viral RNA/DNA	MagMAX™ Pathogen RNA/DNA Kit
	Fast isolation of viral nucleic acid	Easy to use with high sensitivity	Rapid and automated extraction of viral nucleic acid
Sample input	500 µL cell-free sample	200 µL cell-free sample	300 µL cell-free sample
Compatible samples	Plasma, serum, cerebrospinal fluid	Plasma, serum, cerebrospinal fluid	Plasma, serum, saliva, blood
Isolation method	Silica spin column	Filter plate	Scalable, flexible format with magnetic beads
High throughput-compatible	No	Yes	Yes
Compatible applications	Cloning, qPCR, sequencing, genotyping	Cloning, qPCR, sequencing, genotyping	Cloning, qPCR, sequencing, genotyping
Prep time	15 min	35 min	45 min
Prep size	50	4 x 96	480

For more information on Invitrogen viral RNA/DNA purification and detection products, go to [thermofisher.com/viral](https://www.thermofisher.com/viral)

DNA clean-up solutions for every downstream application

Whether isolating a specific size of DNA from complex PCR mixtures or recovering bands from agarose gels, we have solutions that will meet your needs. Kit formats offer simple and rapid PCR clean-up using spin columns or magnetic beads; 96-well plates, with flexible size selection; and one-tube, 5-minute protocols. Isolated DNA is ready for sequencing, PCR, transcription, cloning, and labeling.



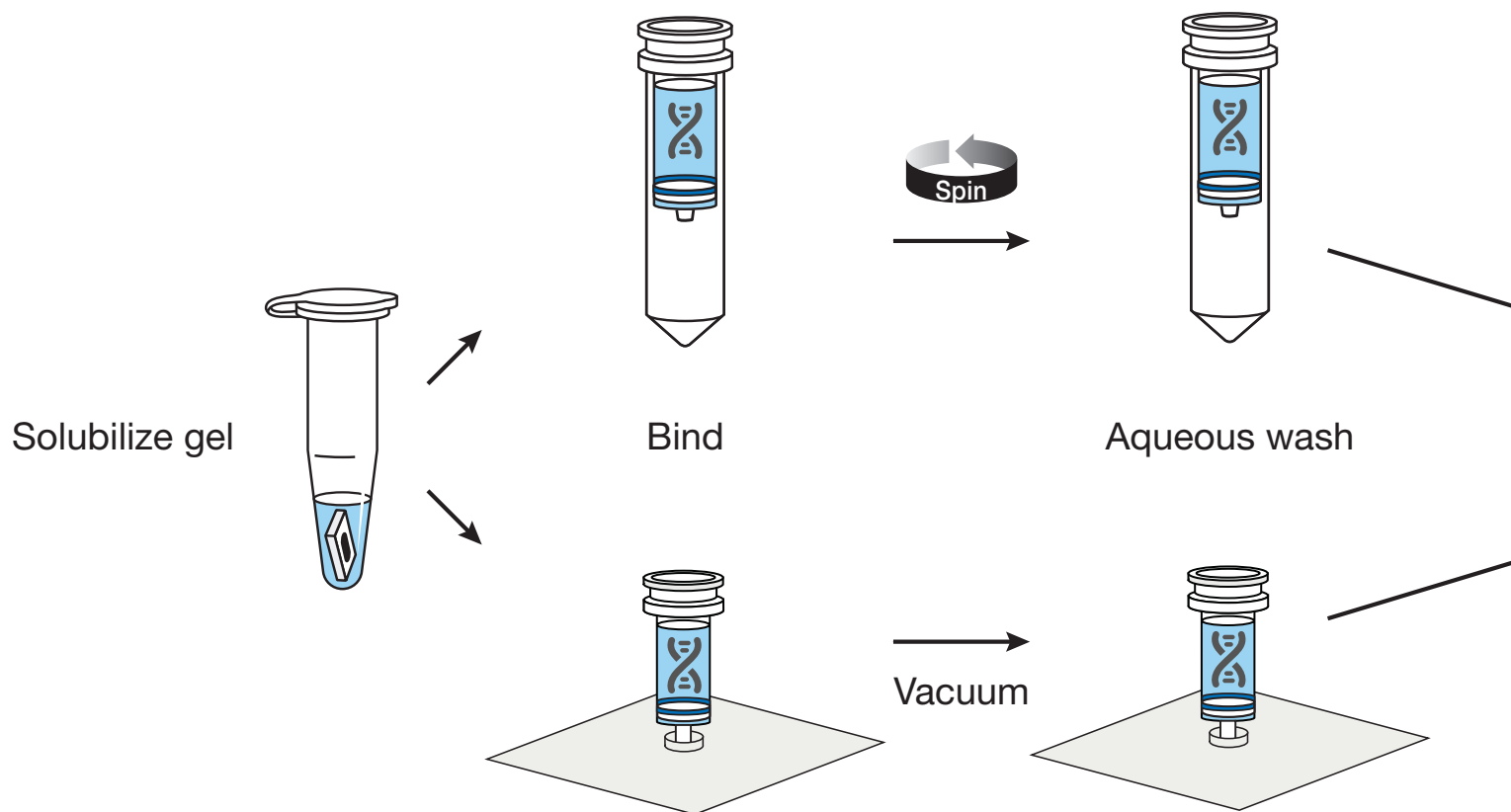
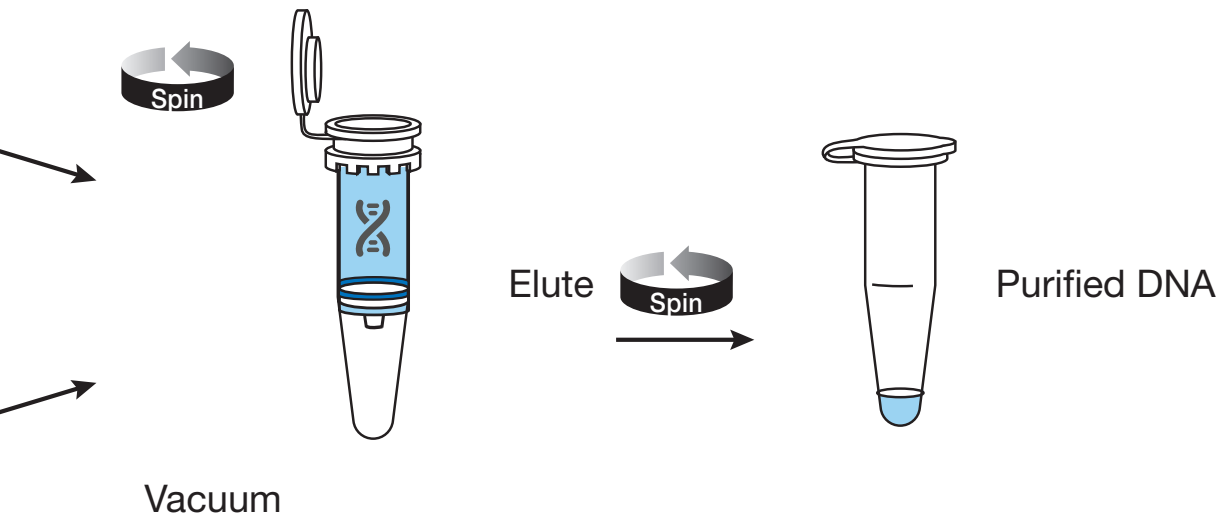


Figure 6. PureLink Quick Gel Extraction Kit protocol. Gel fragments are first solubilized to release the DNA. The sample is then loaded on a PureLink spin column and isolated using a simple “bind, wash, and elute” procedure. DNA fragments are recovered in TE buffer or water in a ready-to-use format.





Which DNA clean-up kit is right for you?

Product	Cat. No.	Quantity	Protocol time (min)	DNA clean-up application	Format	Elution volume (μL)
PureLink™ PCR Purification Kit	K310001 K310002	50 preps 250 preps	<15	PCR clean-up	Silica spin/ vacuum column	50
PureLink™ Pro 96 PCR Purification Kit	K310096A	4 plates (4 x 96 rxns)	20	PCR clean-up	96-well silica plate	50–150
PureLink™ PCR Micro Kit	K210010 K310050 K310250	10 preps 50 preps 250 preps	≤10	PCR clean-up	Silica spin column	5–20
PureLink Quick Gel Extraction Kit	K210012 K210025	50 preps 250 preps	<30	Gel extraction	Silica spin/ vacuum column	30–100
PureLink™ Quick Gel Extraction Kit and PCR Purification Combo Kit	K220001	50 preps	10–30	PCR clean-up and gel extraction	Silica spin/ vacuum column	30–100

Complete purification system for nucleic acids, proteins, and cells

Successful downstream analysis depends on high-quality, reproducible purification of nucleic acids, proteins, and cells. Thermo Scientific™ KingFisher™ purification systems are designed to deliver high-quality results with minimal hands-on time, automating a significant part of your workflow.




- Choose from five distinct systems to meet your application and throughput needs
- Optimized kits streamline the purification workflow for a wide variety of sample types
- Thermo Scientific™ BindIt™ Software enables you to create customized protocols for additional flexibility
- Specially designed consumables allow efficient sample processing

Magnetic separation technology

KingFisher systems use permanent magnetic rods and disposable tip combs to collect, transfer, and mix magnetic particles:

1. When the magnetic rod—sheathed inside the tip comb—is lowered into the solution, magnetic beads collect at the bottom of the tip comb.
2. The tip comb is then positioned in a different row or plate, and the beads are released by moving the magnetic rods out of the tip comb.
3. The tip comb facilitates the mixing of reagents with the beads as the magnetic head moves up and down.

Invitrogen automated sample preparation technologies comparison chart

	Thermo Scientific™ KingFisher™ Duo Prime Purification System	Thermo Scientific™ KingFisher™ Flex™ system	Thermo Scientific™ KingFisher™ Presto™ Purification System
			
Benefits	An economical option for automated nucleic acid extraction and protein purification from up to 12 samples at a time and 24 samples per load using magnetic beads	A highly versatile and reproducible purification of 24 or 96 samples per run	Utilizes magnetic particle-based technology to provide high-quality yields of target nucleic acids and proteins in high-throughput laboratories
Application	DNA and RNA isolation from various starting materials; proteomic applications; cell isolation	DNA and RNA isolation from various starting materials; proteomic applications; cell isolation	Nucleic acid purification, protein purification, immunoprecipitation, antibody purification, phosphopeptide enrichment, phage display
Reagents	Preloaded and user-editable Applied Biosystems™ MagMAX™ kits available to support tissue, cells, blood, FFPE, bacteria, buccal, plant, viral samples, and liquid (e.g., serum)	Preloaded and user-editable MagMAX kits available to support tissue, cells, blood, FFPE, bacteria, buccal, plant, viral samples, and liquid (e.g., serum)	Preloaded and user-editable MagMAX kits available to support tissue, cells, blood, FFPE, bacteria, buccal, plant, viral samples, and liquid (e.g., serum)
Protocol	Using BindIt Software or USB memory device	Using BindIt Software	Using BindIt Software
Plastic consumables	96 deep-well plate 24 deep-well plate 1 x 12 elution strip	96 deep-well plate 24 deep-well plate 96-well plate	96 deep-well plate 24 deep-well plate 96-well plate
Sample input volume	30–1,000 µL (12-pin magnet head) 200–5,000 µL (6-pin magnet head)	50–1,000 µL, 96 deep-well plate 200–5,000 µL, 24 deep-well plate 20–200 µL, 96-well plate	50–5,000 µL 24- or 96-head magnets
Throughput	Up to 12 with 12-pin magnet head Up to 6 with 6-pin magnet head	96 or 24 samples	96 or 24 samples
Instrument dimensions (W x D x H)	400 x 460 x 340 mm (15.7 x 18.1 x 13.4 in.)	680 x 600 x 380 mm (26.8 x 23.6 x 15 in.)	36.0 x 46.5 x 40.0 cm (14.2 x 18.3 x 15.5 in.)
Weight	17 kg (37.5 lb)	28 kg (62 lb)	24 kg (53 lb)

Nucleic acid quantitation

Accurate, sensitive, and specific quantification of DNA and RNA

For nucleic acid quantitation, Invitrogen™ Qubit™ technology employs extreme selectivity not possible with absorbance measurements, resulting in accuracy high enough to quantitate even the most dilute or low-abundance samples, while still leaving enough sample for downstream applications (Figure 7).

Benefits of using Qubit technology

- Better selectivity and accuracy than absorbance assays
- Effectively quantitates dilute and low-abundance samples
- Available for DNA and RNA samples

Upon binding to nucleic acid, the fluorescence of the Qubit dyes increases several hundred-fold, giving a very high signal-to-noise ratio for exceedingly high sensitivity—up to 1,000 times more sensitive than absorbance readings.

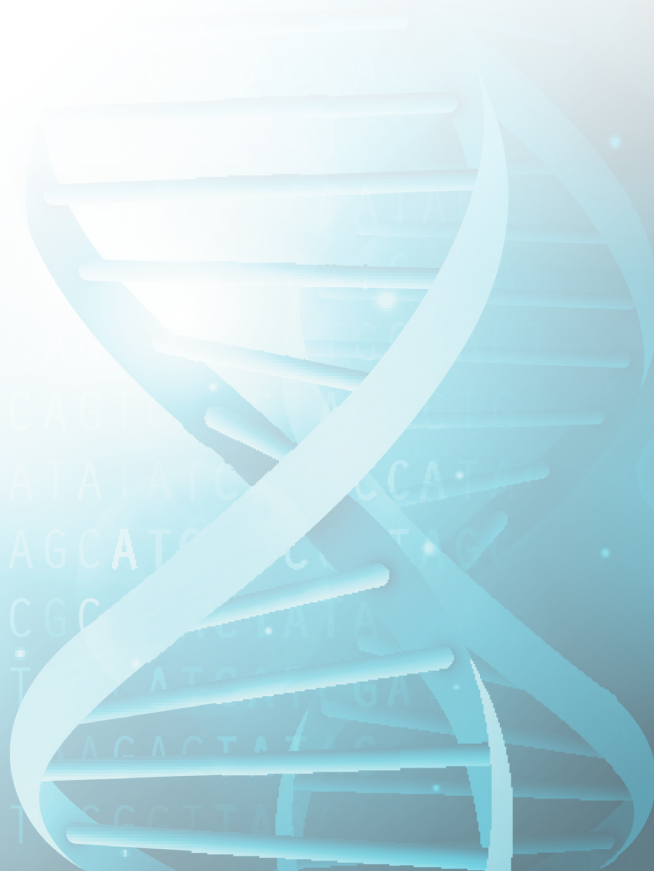
Qubit 2.0 Fluorometer for accurate, precise benchtop quantitation of DNA and RNA

Use of the Invitrogen™ Qubit™ 2.0 Fluorometer for nucleic acid quantitation is:

- Selective—each Qubit assay kit is highly selective for a single analyte (RNA, DNA, or protein)
- Sensitive—samples with concentrations as low as 10 pg/μL of DNA and 12.5 μg/mL of protein may be accurately and reliably quantified
- Simple and intuitive—the Qubit 2.0 Fluorometer provides the same high accuracy you've come to expect, but now is even faster and requires less effort to use

The Qubit 2.0 Fluorometer utilizes specifically designed fluorometric technology using Invitrogen™ dyes that only fluoresce when bound to DNA, RNA, or protein. These fluorescent dyes emit signals only when bound to specific target molecules, even in the presence of free nucleotides or degraded nucleic acids. This specificity allows you to get very accurate results because Qubit technology only reports the concentration of the molecule of interest, not contaminants. Qubit fluorometric quantitation provides exceptionally specific and sensitive DNA and RNA quantitation, even at low concentrations (Figure 8).

Qubit assay kits for the Qubit 2.0 Fluorometer contain reagent, premade calibration standards and premade buffer, and are also available in quantities of 500 assays. Please go to thermofisher.com/qubit for a full product list.



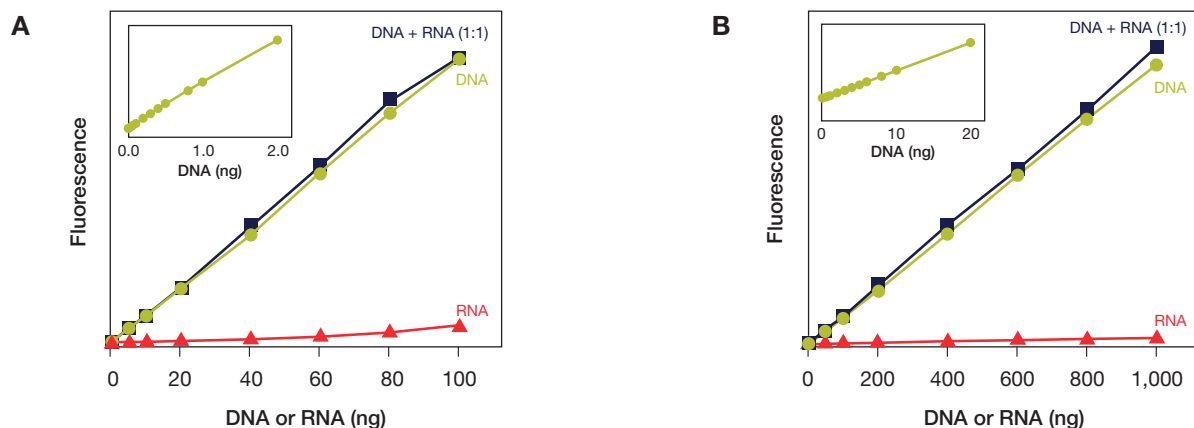


Figure 7. Invitrogen™ Qubit™ High-Sensitivity and Broad-Range DNA Assay Kits. (A) The Qubit High-Sensitivity DNA Assay Kit and (B) the Qubit Broad-Range DNA Assay Kit have linear detection ranges of 0.2–100 ng and 2–1,000 ng, respectively. Each kit is selective for dsDNA, even in the presence of an equal mass of RNA. The x-axis gives the mass of nucleic acid at a given point when DNA or RNA is assayed alone. In the 1:1 mixture, the total mass of nucleic acid at a given point is double what is stated on the x-axis.

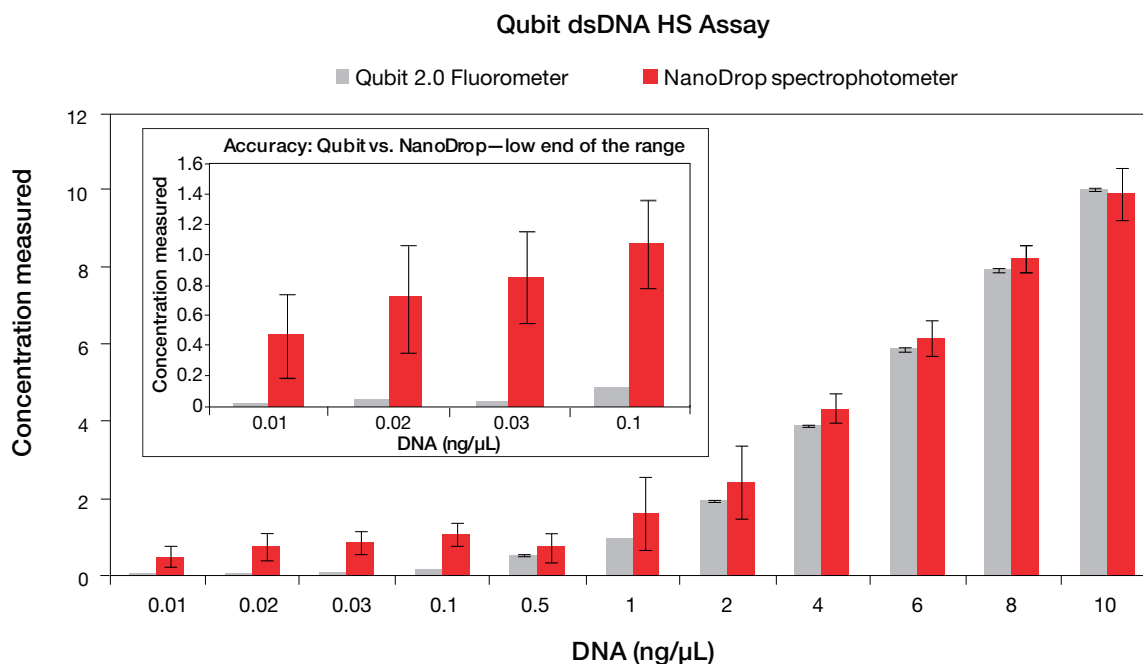


Figure 8. Accuracy and precision of the Qubit 2.0 Fluorometer. Ten replicates of lambda DNA at concentrations of 0.01–10 ng/μL were assayed using the Invitrogen™ Qubit™ dsDNA HS Assay on the Qubit 2.0 Fluorometer according to the standard kit protocol. The same concentrations of DNA were measured in ten replicates using a Thermo Scientific™ NanoDrop™ ND-1000 Spectrophotometer, and results were compared for both accuracy and precision. Each bar represents the average of 10 replicates. Error bars represent the standard deviations of the 10 replicates. The concentrations indicated are those of DNA in the starting samples, before dilution in the Invitrogen™ Qubit™ assay tubes.

Ordering information

Product	Quantity	Cat. No.
Plasmid purification kits		
PureLink HiPure Plasmid Miniprep Kit	25 preps	K210002
	100 preps	K210003
PureLink Quick Plasmid Miniprep Kit	50 preps	K210010
	250 preps	K210011
PureLink <i>Pro</i> Quick 96 Plasmid Purification Kit	4 x 96 rxns	K211004A
PureLink HQ Mini Plasmid DNA Purification Kit	4 x 96 preps	K210096
PureLink HiPure Plasmid Midiprep Kit	25 preps	K210004
	50 preps	K210015
PureLink HiPure Plasmid Filter Midiprep Kit	25 preps	K210014
PureLink HiPure Plasmid Maxiprep Kit	10 preps	K210006
	25 preps	K210007
PureLink HiPure Plasmid Filter Maxiprep Kit	10 preps	K210016
	25 preps	K210017
PureLink HiPure Plasmid FP (Filter and Precipitator) Maxiprep Kit	10 preps	K210026
	25 preps	K210027
PureLink HiPure Expi Plasmid Megaprep Kit	4 preps	K210008XP
PureLink HiPure Expi Plasmid Gigaprep Kit	2 preps	K210009XP
PureLink Expi Endotoxin-Free Megaprep	4 preps	A31232
PureLink Expi Endotoxin-Free Megaprep	2 preps	A31233
Genomic DNA purification kits		
PureLink Genomic DNA Mini Kit	10 preps	K1820-00
	50 preps	K1820-01
	250 preps	K1820-02
PureLink <i>Pro</i> 96 Genomic DNA Mini Kit	4 x 96 preps	K182104A
PureLink <i>Pro</i> 96 Viral RNA/DNA Purification Kit	4 plates (4 x 96 rxns)	133800-96A
PureLink <i>Pro</i> 96 Viral RNA/DNA Mini Kit	50 preps	12280-050
PureLink Genomic Plant DNA Mini Kit	50 preps	K183001
DNAzol Reagent	100 mL	10503027
PureLink Microbiome DNA Purification Kit	50 preps	A29790
Plasmid clean-up and gel extraction kits		
PureLink Quick Gel Extraction and PCR Purification Combo Kit	50 preps	K220001
PureLink Quick Gel Extraction Kit	50 preps	K210012
	250 preps	K210025
PureLink PCR Purification Kit	50 preps	K310001
	250 preps	K310002
PureLink <i>Pro</i> 96 PCR Purification Kit	4 plates (4 x 96 rxns)	K310096A
PureLink PCR Micro Kit	50 preps	K310050

Product	Quantity	Cat. No.
Automated nucleic acid purification systems		
Instruments		
KingFisher Flex Purification System with 24 Deep-Well Head	1 each	5400640
KingFisher Flex Purification System with 96 Deep-Well Head	1 each	5400630
KingFisher Duo Prime Purification System	1 each	5400110
Nucleic acid purification products		
MagMAX kits		
MagMAX-96 DNA Multi-Sample Kit	96 preps	4413021
MagMAX <i>mirVana</i> Total RNA Isolation Kit	96 preps	A27828
MagJET Plasmid DNA Kit	96 preps	K2791
MagMAX Cell-Free DNA Isolation Kit	50 preps	A29319
MagMAX Plant DNA Isolation Kit	96 Preps	A32549
MagMAX <i>mirVana</i> Total RNA Isolation Kit	96 preps	A27828
MagMAX DNA Multi-Sample Ultra Kit	500 preps	A25597
MagMAX FFPE DNA/RNA Ultra Kit	1 kit	A31881
MagMAX Total Nucleic Acid Isolation Kit	100 preps	AM1840
MagMAX Cell-Free DNA Isolation Kit	1 kit	A29319
MagMAX Pathogen RNA/DNA Kit	480 preps	4462359
Dynabeads mRNA DIRECT Purification Kit	5 mL	61011
Nucleic acid quantitation		
Qubit Fluorometer	1 each	Q32866
Qubit Quantitation Starter Kit	1 each	Q32871
Qubit Quantitation Lab Starter Kit	1 each	Q32872
Qubit dsDNA BR Assay Kit	100 assays, 2–1,000 ng	Q32850
	500 assays, 2–1,000 ng	Q32853
Qubit dsDNA HS Assay Kit	100 assays, 0.2–100 ng	Q32851
	500 assays, 0.2–100 ng	Q32854
Qubit ssDNA HS Assay Kit	100 assays, 1–200 ng	Q10212
Qubit Assay Tubes	Set of 500	Q32856

Find out more at thermofisher.com/dnaprep

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