



# Prep for the future with KingFisher instruments

Automated sample preparation  
for DNA, RNA, protein, or cells

# KingFisher instruments are ...



## Consistent

The unique instrument design, moving magnetic beads instead of liquids can help lead to cleaner extractions and consistent results with every run



## Convenient

Easy to set up and run, or customize to fit your lab's needs



## Versatile

Enables more applications than any other sample preparation instrument



## Supported

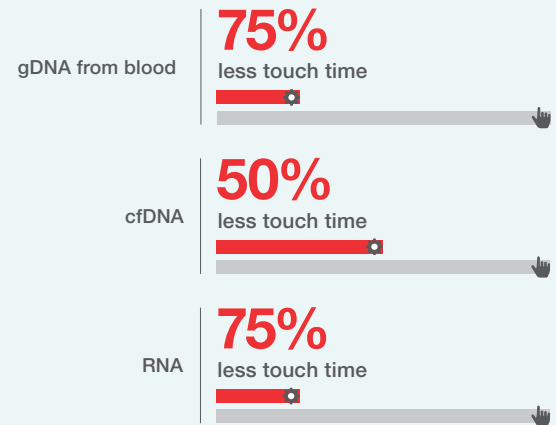
Backed by the industry's largest network of specialists dedicated to supporting these instruments

# Why choose a KingFisher instrument?

## Your samples, faster

Thermo Scientific™ KingFisher™ instruments can save you valuable time by removing manual steps and helping reduce overall processing time, even when compared with other instruments.

■ Average time required using our automated solutions  
■ Average time for manual sample prep



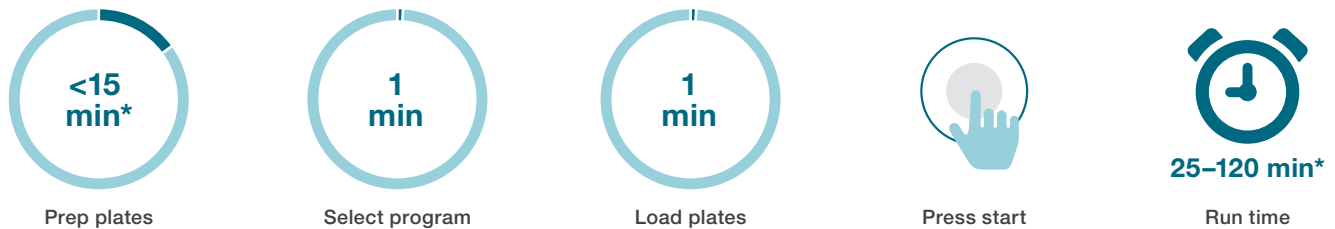
## Your samples, consistently

KingFisher instruments help reduce user processing errors while increasing the reproducibility of your results. Our data show that samples processed with KingFisher instruments have consistent results across runs and different users, which is important for more sensitive downstream applications such as qPCR, NGS, digital PCR, and mass spectrometry.

## Your samples, more easily

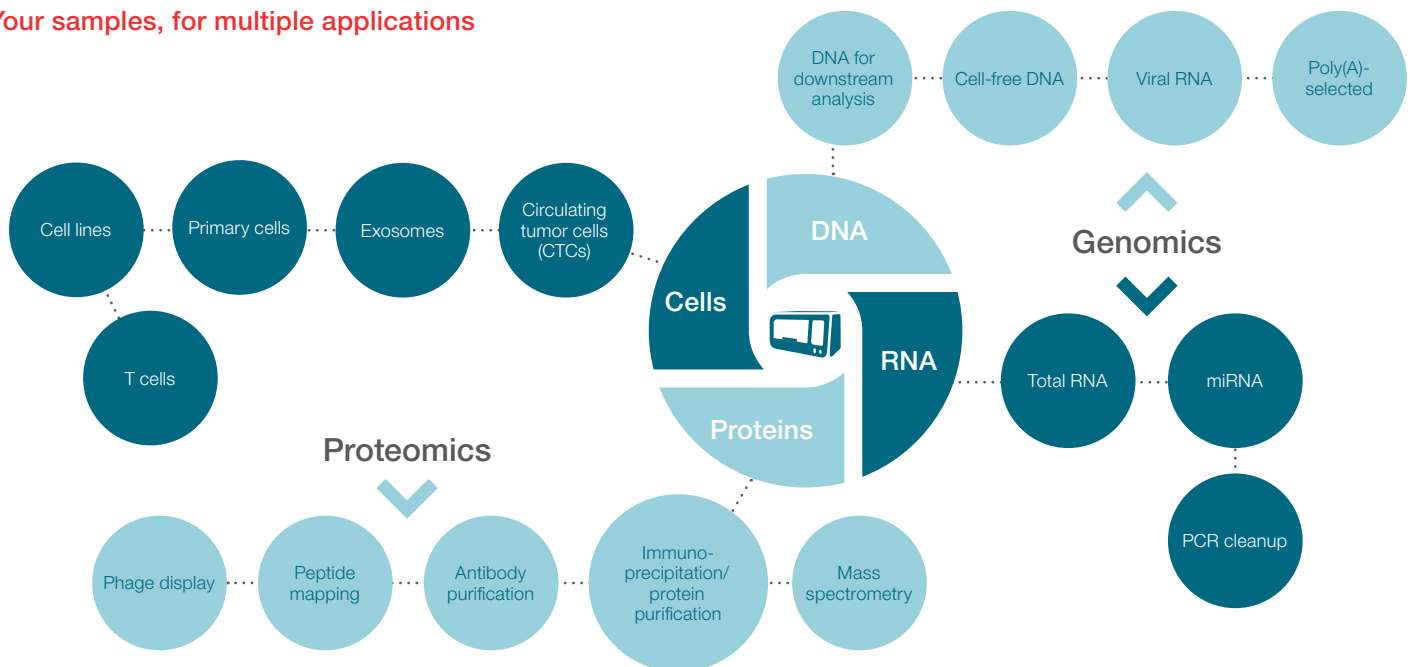
KingFisher instruments offer optimized, easy-to-follow protocols for nearly every downstream application or sample type.

### Typical run with KingFisher instrument



\* Can vary depending on application and instrument.

## Your samples, for multiple applications



# The KingFisher instrument experience

A complete system easily automates sample preparation in your lab



## Instrument

Select a KingFisher instrument based on your throughput needs



## Kits and reagents

Choose kits and reagents from trusted brands, such as Applied Biosystems™ MagMAX™ kits and Invitrogen™ Dynabeads™ reagents



## Customize

Use plastics, software, and interchangeable magnetic heads to customize and optimize your process

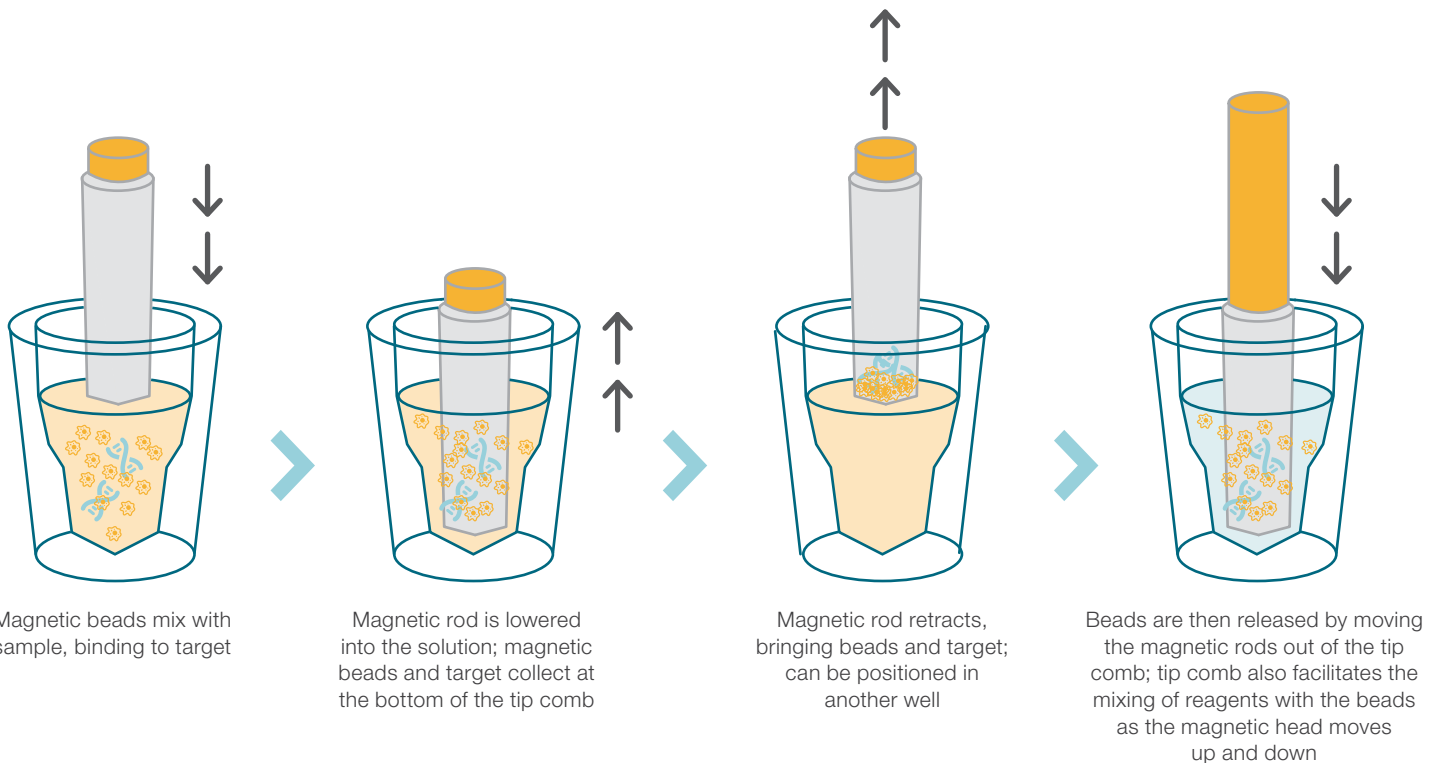


## Support

Contact dedicated KingFisher instrument specialists for application and instrument support

## How KingFisher instruments work

KingFisher instruments automate extraction of DNA, RNA, protein, and cells by moving magnetic beads (not liquids), leading to clean extractions and enabling consistent results. Using a simple process (bind, wash, elute), KingFisher instruments can automate the extraction of any analyte of interest with a bead on it.



# KingFisher instruments

KingFisher instruments are versatile sample preparation instruments in the lab, and are elegantly designed to support multiple applications.

- **Various throughputs**—process 6–96 samples per run depending on the instrument model
- **Interchangeable formats**—choose 24- or 96-well plates so you can process a wide range of input volumes
- **Protocol customization**—easily edit, modify, or create new protocols (touchscreen enabled for Thermo Scientific™ KingFisher™ Apex instrument only)
- **Optimized reagents**—compatible with multiple magnetic-bead reagents
- **Barcoded plastics**—can help you achieve optimal performance with specially designed plastics (for KingFisher Apex instrument only)

## Test a KingFisher platform in your lab

Specialists supporting the KingFisher instrument can provide an on-site demonstration of the system with your samples. They provide the instrument, consumables, and reagents from Thermo Fisher Scientific that are specific to your research needs. The demonstration includes instrument setup and use, protocol modification, and other FAQs. Find out more at [thermofisher.com/kingfisherdemo](http://thermofisher.com/kingfisherdemo)

## Find a model that meets your needs



KingFisher instrument:	Duo Prime	Flex	Apex	Presto
<b>Instrument size</b>	Compact benchtop	Benchtop	Benchtop	Benchtop—integrates with robotic liquid handler
<b>Throughput level</b>	Low to medium	High	High	Ultrahigh
<b>Processing volume range</b>	<ul style="list-style-type: none"> <li>• 50–1,000 µL: 12-pin magnet head</li> <li>• 200–5,000 µL: 6-pin magnet head</li> </ul>	<ul style="list-style-type: none"> <li>• PCR plate (20–100 µL*), skirted</li> <li>• 20–200 µL: 96-well plate</li> <li>• 50–1,000 µL: 96 deep-well plate</li> <li>• 200–5,000 µL: 24 deep-well plate</li> </ul>	<ul style="list-style-type: none"> <li>• 15–1,000 µL: 96 deep-well plate</li> <li>• 15–200 µL: 96-well KingFisher standard plate</li> <li>• 10–80 µL: 96-well PCR plate</li> <li>• 30–5,000 µL: 24 deep-well plate</li> <li>• 30–200 µL: 96 storage tubes</li> <li>• 200–1,000 µL: 24 storage tubes</li> </ul>	<ul style="list-style-type: none"> <li>• 50–1,000 µL: 96 deep-well plate</li> <li>• 200–5,000 µL: 24 deep-well plate</li> <li>• KingFisher 96 plate: 50–150 µL</li> </ul>
<b>Samples per run</b>	6 or 12	24 or 96	24 or 96	24 or 96
<b>Customizable protocols</b>	Yes	Yes	Yes, with touchscreen or PC software	Yes
<b>Heating/cooling</b>	<ul style="list-style-type: none"> <li>• 10°C to 75°C (plate row block A)</li> <li>• 4°C to 75°C (elution strip block)</li> </ul>	From 5°C above ambient temperature to 115°C	<ul style="list-style-type: none"> <li>• From 4°C above ambient temperature to 100°C</li> <li>• Cooling down to 4°C</li> </ul>	From 5°C above ambient temperature to 115°C
<b>Ultraviolet lamp</b>	8 watts (up to 16 hr)	No	2 UV lamps, max 23 h 59 min	No
<b>Additional details</b>	For Research Use Only	For Laboratory Use	For Laboratory Use	For Laboratory Use

\* Or similar skirted PCR plate.

# KingFisher Apex system

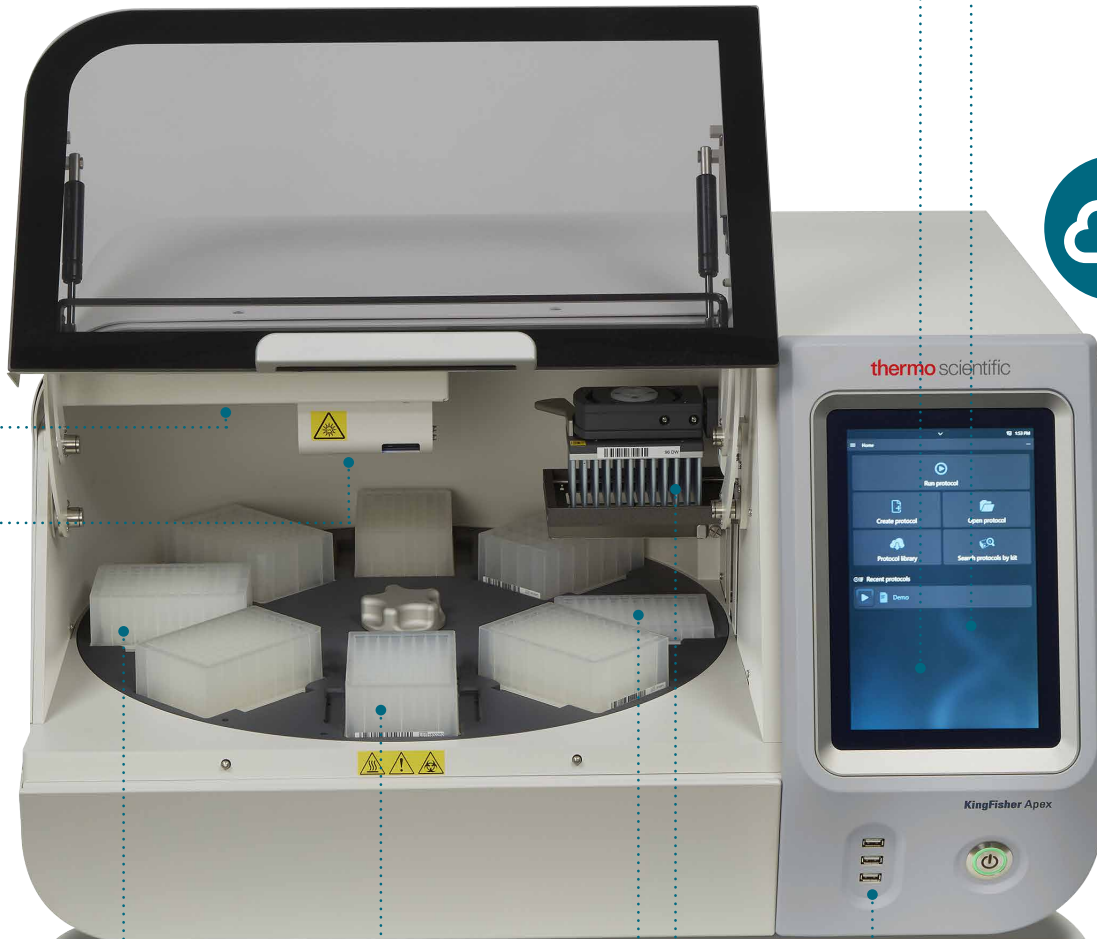
Our latest KingFisher sample purification technology

Intuitive touchscreen interface

Write or edit protocols directly on instrument



UV decontamination



Barcode scanning for plate setup

Storage tube elution

96-well, 24-well, and PCR formats

Optional network connectivity

Switch between two magnet heads

Heating and cooling blocks

 Cloud-enabled

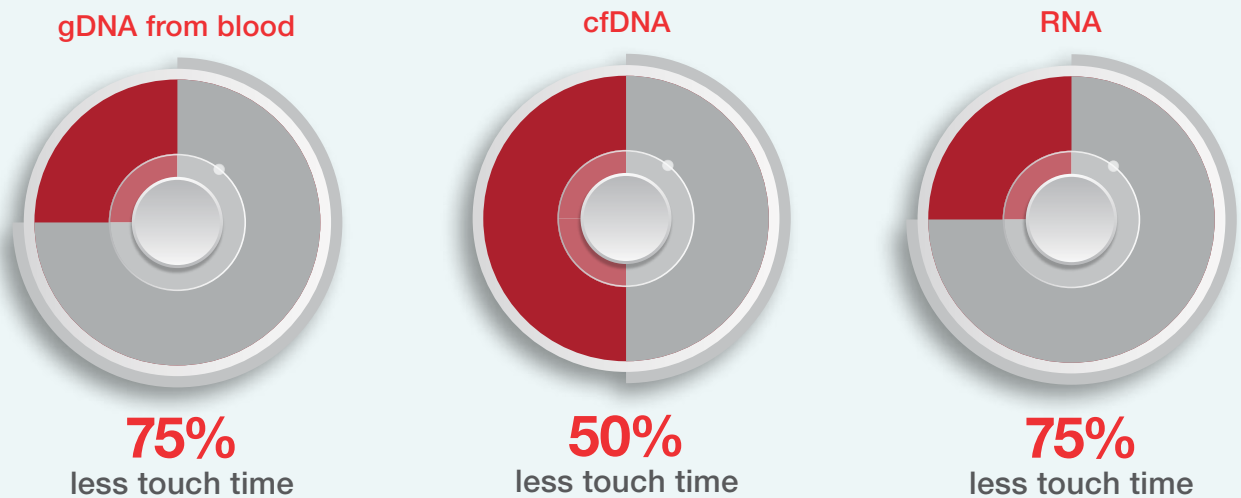


### Enhanced performance

Achieve peak performance for purifying DNA, RNA, proteins, or cells, now with even greater flexibility for fast and reproducible results with almost any application.

- Elute in lower volumes (10  $\mu$ L) for demanding downstream applications
- Purify 24 or 96 samples in 25–65 min
- Control heating and cooling to maintain sample integrity
- Elute in storage tubes and revisit samples later
- Safeguard against contamination with two UV lights

Sample prep as it should be—fast, flexible, consistent.\*



\* Based on actual extraction times in lab.

■ Average time required using our automated solutions

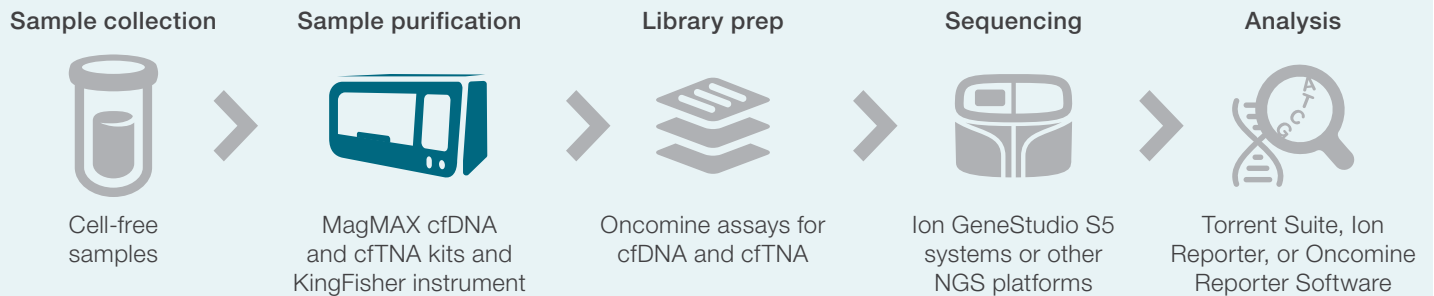
■ Average time for manual sample prep

# Featured KingFisher instrument applications

## Liquid biopsy for cancer research

Rapid purification of nucleic acids from cell-free samples for liquid biopsy research. Optimized specifically for enrichment of cfDNA and cell-free total nucleic acid (cfTNA), not gDNA, which means increased recovery and lower starting volumes. Elute in volumes compatible with Ion Torrent™ Oncomine™ assays.








### Sample workflow

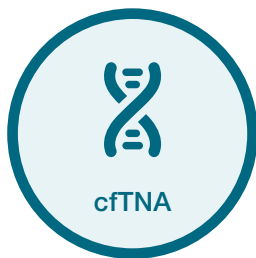


### Recommended kits










#### Applied Biosystems™ MagMAX™ Cell-Free DNA Isolation Kit

 <b>Sample type</b>	Serum, plasma, and urine
 <b>Sample input volume</b>	0.5–10 mL plasma, 0.1–10 mL serum, 10 mL of urine
 <b>Yield</b>	40–50 ng from 4 mL plasma
 <b>Elution volume</b>	15–50 µL
 <b>Total processing time</b>	45–55 min total (10–15 min hands-on time)
 <b>Reactions (rxn)</b>	50 rxn for 2 mL plasma input 25 rxn for 4 mL plasma input
 <b>Cat. No.</b>	A29319



#### Applied Biosystems™ MagMAX™ Cell-Free Total Nucleic Acid Isolation Kit

 <b>Sample type</b>	Serum and plasma
 <b>Sample input volume</b>	1–6 mL plasma
 <b>Yield</b>	Up to 50 ng DNA from 4 mL and 5–100 pg from 10 mL of sample input
 <b>Elution volume</b>	15–60 µL
 <b>Total processing time</b>	45–55 min total (10–15 min hands-on time)
 <b>Reactions (rxn)</b>	50 rxn for 2 mL plasma input 25 rxn for 4 mL plasma input
 <b>Cat. No.</b>	A36716

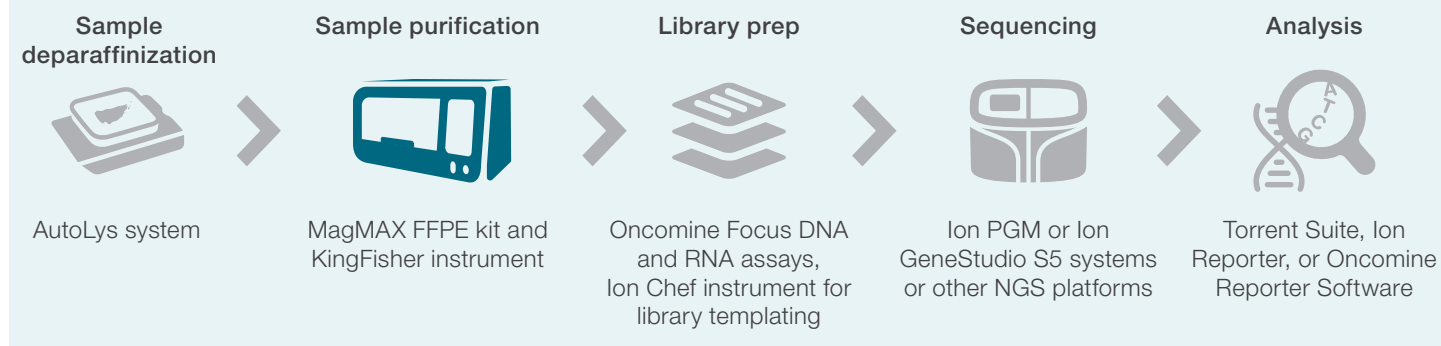
Find out more at [thermofisher.com/cfdnaisolation](https://thermofisher.com/cfdnaisolation)



# Formalin-fixed, paraffin-embedded (FFPE) samples

Sequentially isolate DNA and RNA from FFPE samples and get high-quality gDNA yields comparable to fresh-frozen blood.

## Sample workflow



## Recommended kits

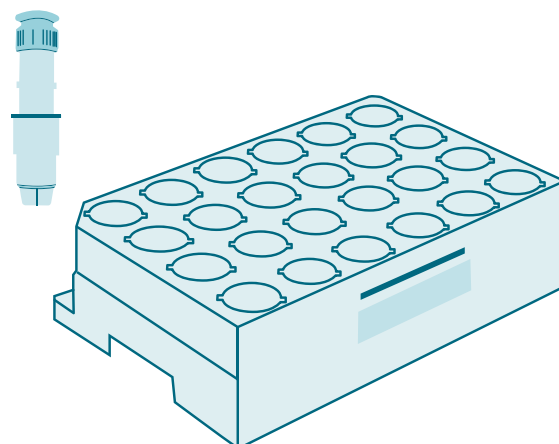


### Applied Biosystems™ MagMAX™ FFPE DNA/RNA Ultra Kit

<b>Sample type</b>	FFPE tissue samples, such as resections, biopsies, and aspirates
<b>Sample input volume</b>	5–40 µm standard input of slides or curls
<b>Elution volume</b>	20–50 µL
<b>Total processing time</b>	20 min for DNA, 48 min for RNA
<b>Reactions (rxn)</b>	96 isolations (48 RNA and 48 DNA, or 96 DNA or 96 RNA)
<b>Cat. No.</b>	A31881

## AutoLys system

Speed up your deparaffinization process with the Applied Biosystems™ AutoLys system. Comprised of pretreated tubes and a rack system to help reduce pipetting steps, the system eliminates the need for hazardous chemicals and helps minimize loss of tissue sample. **Note:** Not included with the MagMAX FFPE DNA/RNA Ultra Kit.



Find out more at [thermofisher.com/ffpeisolation](https://thermofisher.com/ffpeisolation)

# DNA for downstream analysis

Extract high-quality DNA that is compatible with sequencing or array platforms, from a range of sample types. Choose from multiple protocols, but only two options for either large or small volume inputs, without normalization.

## Sample workflow

### Sample collection



Compatible with multiple sample types



### Sample purification



MagMAX DNA Multi-Sample Ultra 2.0 Kit and KingFisher instrument



### Analysis










Compatible with multiple downstream applications

- qPCR
- Sequencing (NGS or CE platform)
- Array
- Digital PCR

## Recommended kits

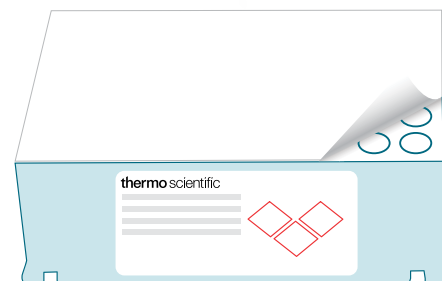


### Applied Biosystems™ MagMAX™ DNA Multi-Sample Ultra 2.0 Kit

 <b>Sample type</b>	Multiple, including whole blood, swabs, tissue, and more
 <b>Sample input volume</b>	50 $\mu$ L–2 mL
 <b>Yield</b>	1.5–4 $\mu$ g (50 $\mu$ L of blood) 2–12 $\mu$ g (1 buccal swab)
 <b>Elution volume</b>	50 $\mu$ L–1 mL
 <b>Total processing time</b>	6–96 samples in 30–45 min depending on sample type
 <b>Reactions (rxn)</b>	1 kit = 100 rxn of 50–400 $\mu$ L volume or 200 rxn of <200 $\mu$ L volume; bulk reagents sold separately
 <b>Cat. No.</b>	A36570

### KingFisher instrument-ready reagents

Reduce your pipetting steps with prefilled reagent plates for the Thermo Scientific™ KingFisher™ Duo Prime and Thermo Scientific™ KingFisher™ Flex instruments. Now, MagMAX DNA Multi-Sample Ultra 2.0 isolation reagents come prefilled into the plates that go in the KingFisher instrument. Just peel off the plate cover, add lysed samples, and load plates onto the instrument. Find out more at [thermofisher.com/kingfisherready](http://thermofisher.com/kingfisherready)



Find out more at [thermofisher.com/magmaxultra](http://thermofisher.com/magmaxultra) and [thermofisher.com/kingfisherready](http://thermofisher.com/kingfisherready)

# RNA for gene expression

Isolate total RNA, as well as small RNAs such as microRNA (miRNA), from a wide variety of sample types using a phenol-free extraction (no organic extraction).

## Sample workflow

### Sample collection



Compatible with multiple sample types



### Sample purification



MagMAX *mirVana* kit and KingFisher instrument



### Analysis



Compatible with multiple downstream applications

- qPCR
- Sequencing (NGS or CE platform)
- Array
- Digital PCR

## Recommended kits



### Applied Biosystems™ MagMAX™ *mirVana*™ Total RNA Isolation Kit

<b>Sample type</b>	Multiple, including plasma/serum, whole blood, tissue, cell culture, urine
<b>Sample input volume</b>	50 µL of blood, up to 50 mg of tissue, 1 x 10 <sup>6</sup> cells, 100 µL of plasma or serum, 250 µL of urine
<b>Yield</b>	100 ng RNA from whole blood (50 µL) 600 ng from 5 mg mouse brain 2.5 µg from 5 mg mouse liver
<b>Elution volume</b>	50 µL
<b>Total processing time</b>	1.5–2 hr total time (20 min hands-on time)
<b>Reactions (rxn)</b>	96 rxn
<b>Cat. No.</b>	A27828

Find out more at [thermofisher.com/magmaxmirvana](https://thermofisher.com/magmaxmirvana)

# Genetic testing

Speed up your processing of saliva samples for genetic testing. Recover DNA that is compatible with NGS and array platforms, from 96 samples, in as little as 25 minutes. Reagents were tested with the 10 most common saliva collection devices to confirm consistent results.

## Sample workflow

### Sample collection



Compatible with multiple saliva collection devices

### Sample purification



MagMAX saliva kit and KingFisher instrument

### Target prep



Axiom reagents and consumables

### Array processing



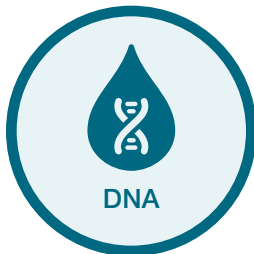
GeneTitan MC Instrument or other array platform

### Analysis










Axiom Analysis Suite

## Recommended kits



### Applied Biosystems™ MagMAX™ Saliva gDNA Isolation Kit

 <b>Sample type</b>	Fresh and preserved saliva
 <b>Sample input volume</b>	200 µL–2 mL
 <b>Yield</b>	100 ng/µL saliva on average (yield is dependent on each individual donor)
 <b>Elution volume</b>	50 µL
 <b>Total processing time</b>	25 min (5 min hands-on time)
 <b>Reactions (rxn)</b>	100 rxn 500 rxn
 <b>Cat. No.</b>	A39059, A39060

Find out more at [thermofisher.com/saliva](https://thermofisher.com/saliva)

# Infectious disease and microbiome research

## Sample workflow

### Sample collection



Compatible with multiple sample types



### Sample purification



MagMAX microbiome kit and KingFisher instrument



### Analysis



Compatible with multiple downstream applications

- Viral/pathogen
- qPCR
- Microbiome
- Sequencing
- Digital PCR
- Wastewater

## Virus and pathogen detection

- **Recovery**—compatible with low-titer samples
- **No carrier required**—less interference with NGS and fewer steps required

## Microbiome research

- Enzyme—based digestion
- Recover from a wide range of microorganisms without additional processing steps

## Recommended kits



### Applied Biosystems™ MagMAX™ Microbiome Ultra Nucleic Acid Isolation Kit

<b>Sample type</b>	Stool, soil, swabs, urine, and saliva
<b>Sample input volume</b>	100 mg of stool, 250 mg of soil, 400 µL of biofluid
<b>Yield</b>	40–60 µg of stool, 5–10 µg of soil
<b>Elution volume</b>	50–200 µL or more
<b>Total processing time</b>	50 min for stool, 70 min for soil and biofluid
<b>Reactions (rxn)</b>	100 rxn
<b>Cat. No.</b>	A42357 (with plate), A42358 (with tubes)

### Applied Biosystems™ MagMAX™ Viral/Pathogen Nucleic Acid Isolation Kit

<b>Sample type</b>	Plasma, whole blood, urine, BAL, VTM, serum, CSF, and saliva
<b>Sample input volume</b>	200 µL–2 mL
<b>Detection limit</b>	≥50 copies
<b>Elution volume</b>	50–100 µL
<b>Total processing time</b>	40 min
<b>Reactions (rxn)</b>	100 rxn
<b>Cat. No.</b>	A42352

### Applied Biosystems™ MagMAX™ Viral/Pathogen Ultra Nucleic Acid Isolation Kit

<b>Sample type</b>	Swabs, plasma, whole blood, urine, BAL, VTM, serum, CSF, and saliva
<b>Microbes</b>	Lysed virus, yeast, fungus, gram-negative and gram-positive bacteria
<b>Sample input volume</b>	200 µL–2 mL
<b>Detection limit</b>	≥50 viral copies, ≥1,000 CFU (bacteria or fungi)
<b>Elution volume</b>	60–100 µL
<b>Total processing time</b>	65 min
<b>Reactions (rxn)</b>	100 rxn
<b>Cat. No.</b>	A42356

Find out more at [thermofisher.com/magmaxmicrobiome](https://thermofisher.com/magmaxmicrobiome) and [thermofisher.com/magmaxviralpathogen](https://thermofisher.com/magmaxviralpathogen)

# Wastewater research and surveillance

## Sample workflow

### Sample collection



Compatible with multiple sample types

### Sample purification



MagMAX microbiome kit and KingFisher instrument

### Analysis



Compatible with multiple downstream applications

- Viral/pathogen monitoring
- qPCR
- Wastewater microbe detection
- Sequencing
- Digital PCR

## Wastewater surveillance testing and research

- Choose your preferred concentration method and protocol
- Preconcentrate samples from large volumes using ultracentrifugation, precipitation, or filtration
- Use Dynabeads option for automated viral enrichment of up to 10 mL volume
- Directly isolate from 1 mL of wastewater without concentration

## Recommended kits



### Applied Biosystems™ MagMAX™ Wastewater Ultra Nucleic Acid Isolation Kit

	<b>Sample type</b>	Wastewater, water, and sludge
	<b>Sample input volume</b>	200 µL–500 mL or 200 mg of sludge
	<b>Yield</b>	Varies
	<b>Elution volume</b>	50–100 µL
	<b>Total processing time</b>	45–90 min
	<b>Reactions (rxn)</b>	20–100 rxn
	<b>Cat. No.</b>	A52606

### Applied Biosystems™ MagMAX™ Wastewater Ultra Nucleic Acid Isolation Kit with Virus Enrichment

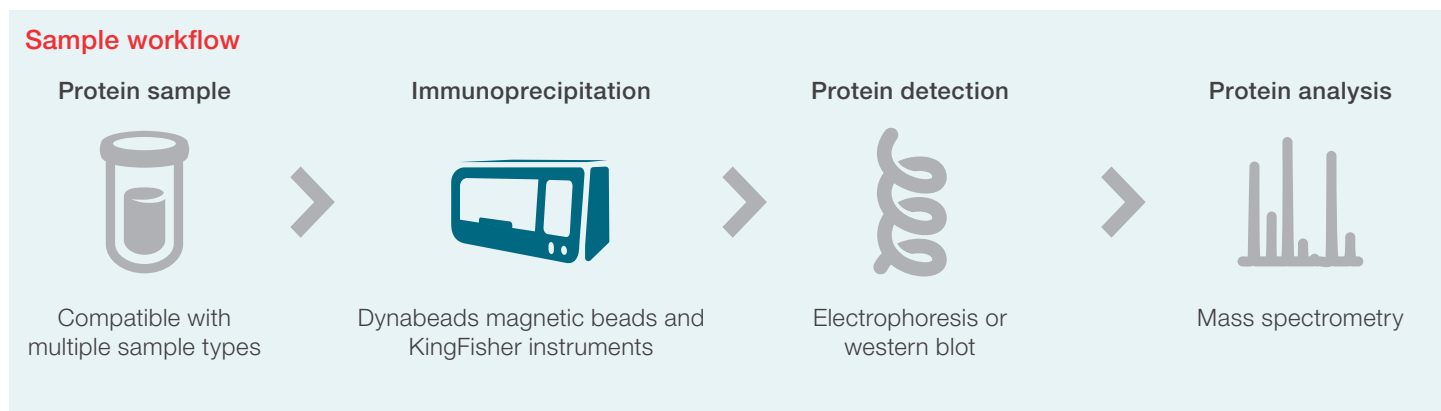
	<b>Sample type</b>	Wastewater, water
	<b>Sample input volume</b>	10 mL
	<b>Yield</b>	Varies
	<b>Elution volume</b>	50–100 µL
	<b>Total processing time</b>	75 min
	<b>Reactions (rxn)</b>	100 rxn
	<b>Cat. No.</b>	A52610

Find out more at [thermofisher.com/magmaxwastewater](https://thermofisher.com/magmaxwastewater)

# Immunoprecipitation (IP)

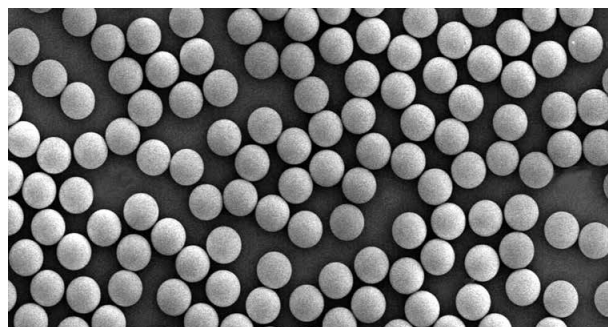
KingFisher instruments with Invitrogen™ Dynabeads™ magnetic beads offer great balance of high yield and reproducibility with low nonspecific binding, which is one reason they have become the gold standard for immunoprecipitation using magnetic beads.

## Sample workflow



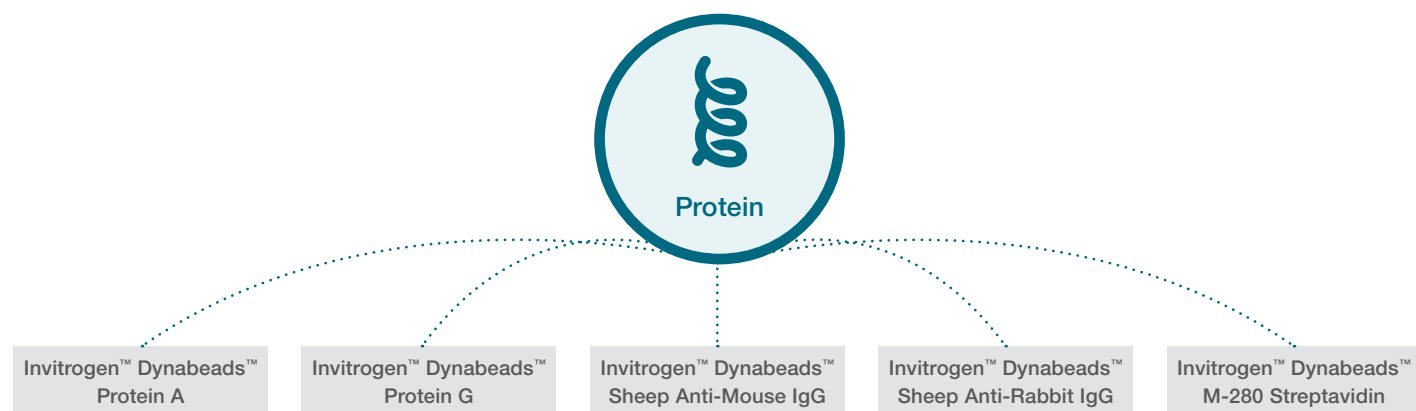
## Dynabeads magnetic beads for IP

- Automated IP in 40 min
- High yield with low antibody consumption and low nonspecific binding
- Rapid target binding; short incubation and separation times



Dynabeads products are the most uniform monodisperse superparamagnetic beads on the market, manufactured with highly controlled product qualities to help ensure the highest degree of reproducibility.

## Recommended kits

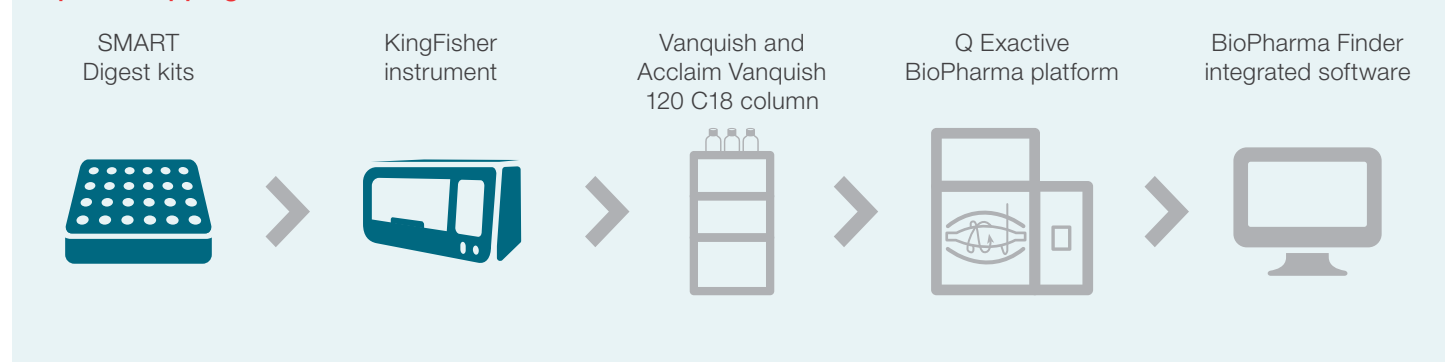


Find out more at [thermofisher.com/immunoprecipitation](https://www.thermofisher.com/immunoprecipitation)

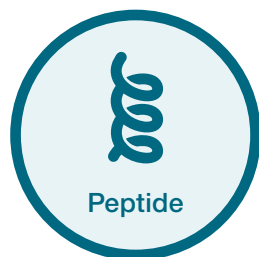
# Peptide mapping and quantitation

Amazingly fast, simple, reproducible, and sensitive protein digestion with immunoaffinity capture, helping give you higher confidence in your chromatography and liquid chromatography-mass spectrometry (LC-MS) results.




## Peptide mapping workflow



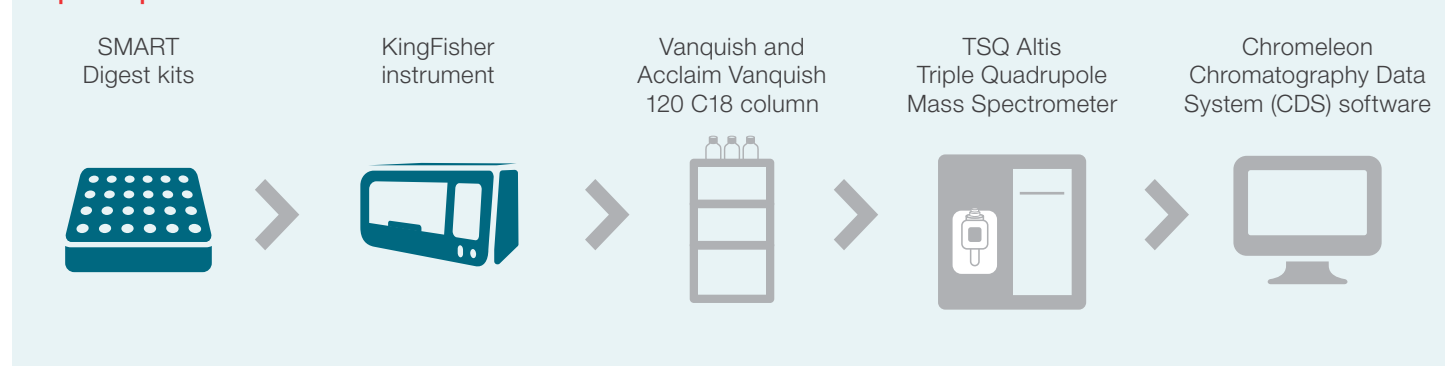
## Recommended kits



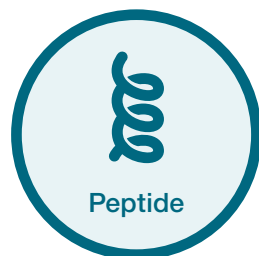
### Thermo Scientific™ SMART Digest™ kits for peptide mapping

 <b>Sample type</b>	Cell broth/plasma/serum
 <b>Sample input volume</b>	Up to 50 $\mu$ L (200 pg–3.5 mg of total protein)
 <b>Total processing time</b>	Typical mAb ~45 min (dependent on size and complexity of protein)




## Peptide quantitation workflow



## Recommended kits



### Thermo Scientific™ SMART Digest™ immunoaffinity kits for peptide quantitation

 <b>Sample type</b>	Cell broth/plasma/serum
 <b>Sample input volume</b>	Up to 50 $\mu$ L (200 pg–3.5 mg of total protein)
 <b>Total processing time</b>	Typical mAb ~3–4 hr (dependent on size and complexity of protein)

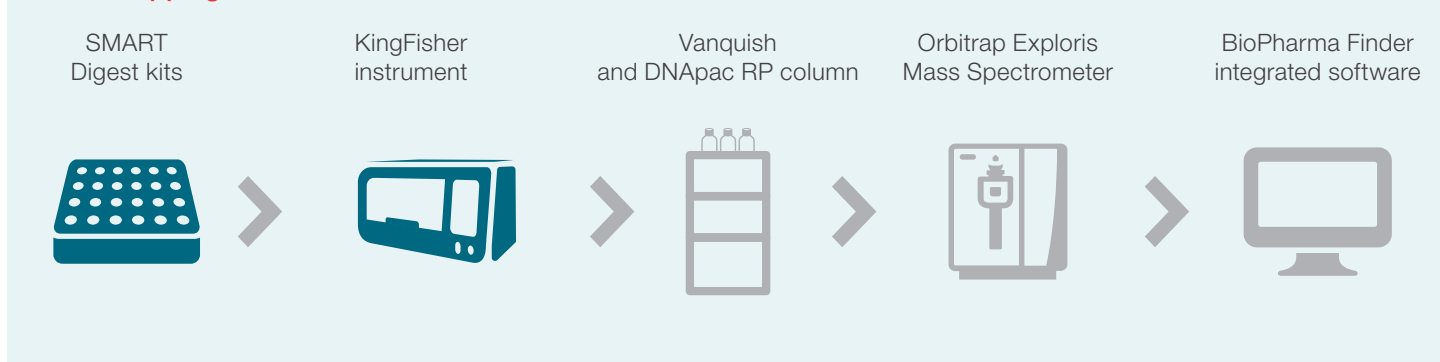
Find out more at [thermofisher.com/smartdigest](https://thermofisher.com/smartdigest)



# mRNA mapping

Amazingly fast, simple, reproducible, and sensitive mRNA partial digestion helps give you higher confidence in your chromatography and LC-MS results.




## mRNA mapping workflow



## Recommended kits



### Thermo Scientific™ SMART Digest™ kits for mRNA mapping

 <b>Sample type</b>	Cell broth/plasma/serum
 <b>Sample input volume</b>	Up to 50 $\mu$ L (50 $\mu$ L of the SMART Digest RNase buffer with 40 $\mu$ g of mRNA)
 <b>Total processing time</b>	5–15 min digestion on KingFisher instrument; 60 min LC analysis

Find out more at [thermofisher.com/smardigest](https://thermofisher.com/smardigest)

# Protein purification

Thermo Scientific™ Pierce™ magnetic agarose beads support a variety of ligands for IP, co-IP, pull-down, and other high-throughput affinity screening applications utilizing immobilized protein A/G, Ni-NTA, glutathione, and anti-FLAG.



## Sample workflow

### Sample collection



Compatible with multiple sample types



### Protein purification



Pierce beads and KingFisher instruments



### Protein detection



Electrophoresis or western blot

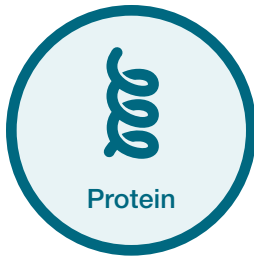


### Protein analysis



Mass spectrometry

## Recommended kits



### Thermo Scientific™ Pierce™ magnetic agarose beads

- **High binding**—up to 100-fold greater binding capacity than traditional magnetic beads
- **More choices**—multiple ligands available for different purification strategies, including immobilized protein A/G, Ni-NTA, glutathione, and anti-FLAG
- **Automation-compatible**—can be used with magnetic particle processors to enable higher-throughput applications
- **Flexible**—can scale up or down as needed using adaptable protocols

Learn more at [thermofisher.com/mag-agarose](https://thermofisher.com/mag-agarose)

# Additional KingFisher applications

## mRNA

Target and capture the mRNA transcriptome from a wide variety of crude starting samples using Invitrogen™ Dynabeads™ mRNA DIRECT™ kits. These kits are designed for simple and rapid isolation of pure, intact poly(A) RNA directly from the crude lysate of animal and plant cells and tissues. The isolated mRNA is suitable for use in all downstream applications.

- **Fast**—15 minute procedure yields pure, intact mRNA
- **Sensitive**—enables cDNA synthesis and cDNA library construction from ultrasmall starting samples

## Plant DNA or RNA

Use the Applied Biosystems™ MagMAX™ Plant DNA and RNA kits for automation-ready purification of DNA and RNA from a wide variety of plant species.

- Purification of total RNA from a wide variety of plant species and tissue types, including plant fungus
- Purified RNA is free of proteins, nucleases, and other contaminants or inhibitors
- Optimized for the isolation of DNA from 10–100 mg plant samples

## Recommended kits



mRNA

### Dynabeads mRNA DIRECT kits

<b>Sample type</b>	Blood, cells, FFPE and fixed samples, liquid samples (e.g., serum), plant samples, RNA, tissue, viral samples, yeast
<b>Sample input volume</b>	Up to 20 x 10 <sup>6</sup> cells 2–200 mg animal tissue 4–400 mg plant tissue
<b>Yield</b>	2 µg of mRNA per 1 mg of Dynabeads oligo(dT)
<b>Elution volume</b>	10–100 µL
<b>Total processing time</b>	15 min
<b>Reactions (rxn)</b>	20 or 40 rxn
<b>Cat. No.</b>	61011, 61012



DNA or RNA

### MagMAX Plant DNA kit and RNA kit

	DNA	RNA
<b>Sample type</b>	Plant tissue	
<b>Sample input volume</b>	Up to 100 mg	
<b>Yield</b>	Varies based on starting material	
<b>Total processing time</b>	<40 min for DNA	Up to 75 min for RNA
<b>Reactions (rxn)</b>	96 or 384 rxn	
<b>Cat. No.</b>	A32549, A32580	A33784, A33899

# Customize your KingFisher system

## Customize your protocols

Thermo Scientific™ BindIt™ Software allows you to easily create, modify, and store your protocols.

- Included with purchase of your KingFisher instrument
- Modify prewritten protocols or create your own to handle more applications

Search our extensive library of automated protocols at

[thermofisher.com/kingfisherprotocols](http://thermofisher.com/kingfisherprotocols)

## Interchangeable magnetic heads

The magnetic head can be easily switched without tools, depending on your plate setup, allowing you to run large or small volumes.



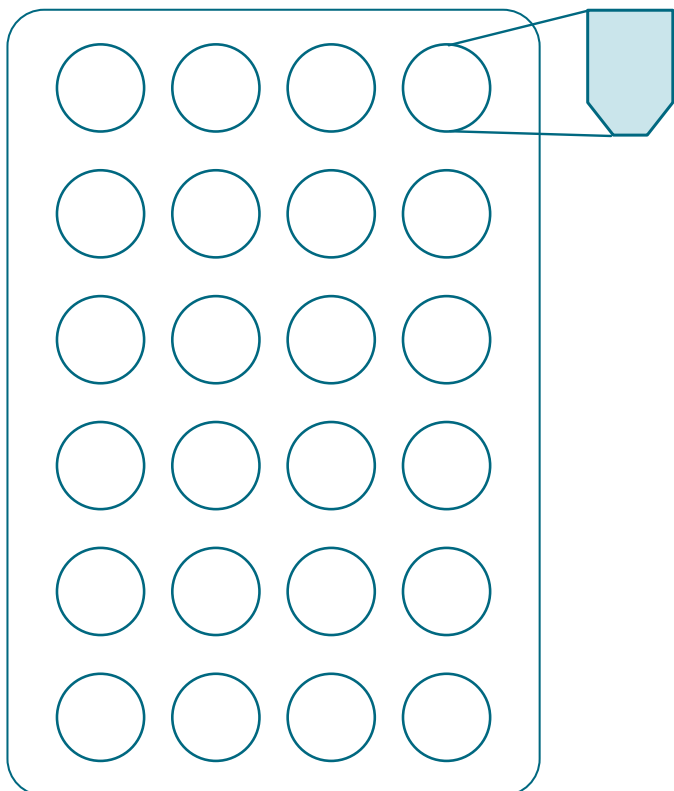
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## KingFisher plate formats

KingFisher instruments support a 24- or 96-well plate format to enable greater flexibility of input volume.

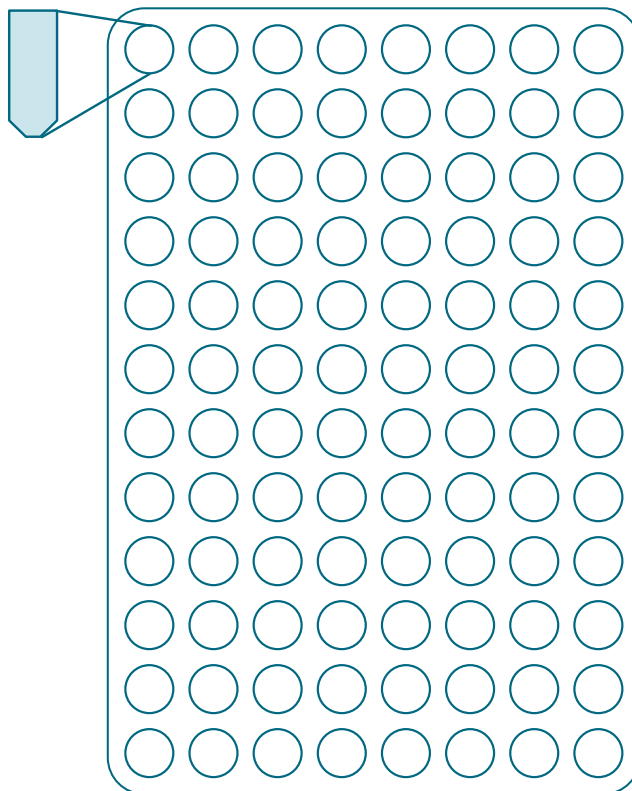
### 24 deep-well plates

200–5,000  $\mu\text{L}$



### 96 deep-well plates

50–1,000  $\mu\text{L}$



# KingFisher plastics for KingFisher instruments

## Designed for KingFisher instruments

Both the yield and quality of isolated protein or nucleic acid can be significantly improved with special plates and tip combs designed for KingFisher systems.

- Made of polypropylene
- Low binding affinity for biomolecules, ideal for magnetic particle processing
- Sterile plastics come with a purity certificate and are guaranteed to be free of RNases, DNases, and contamination from DNA or endotoxins

KingFisher instrument:	Duo Prime	Flex	Apex	Presto	Cat. No.
<b>Plastics for 96 deep-well format</b>					
KingFisher Apex 96 combi tip comb			✓		97002570
KingFisher 96 deep-well plate, barcoded			✓		95040450B
KingFisher 96 deep-well plate, sterile, barcoded			✓		95040460B
KingFisher 96 tip comb for deep-well magnet, barcoded			✓		97002534B
KingFisher 96 deep-well tip comb and plate, sterile, barcoded			✓		97002820B
Nunc 96 storage tubes*			✓		374086
KingFisher 96 deep-well plate	✓	✓		✓	95040450
KingFisher 96 deep-well plate, sterile	✓	✓		✓	95040460
KingFisher 96 tip comb for deep-well magnet		✓		✓	97002534
KingFisher 96 deep-well tip comb and plate, sterile		✓		✓	97002820
<b>Plastics for 96 standard and PCR formats</b>					
KingFisher Apex 96 PCR tip comb			✓		97002560
KingFisher 96 microplate (200 µL), barcoded			✓		97002540B
KingFisher 96 tip comb for KingFisher magnets, barcoded			✓		97002524B
PCR plate, 96 deep-well, clear, clear wells*			✓		AB2396
PCR plate, 96 deep-well, semi-skirted, low profile, clear wells*			✓		AB2496
KingFisher 96 microplate (200 µL)		✓		✓	97002540
PCR plate, skirted (or similar PCR plate)*		✓			AB1300
KingFisher 96 tip comb for KingFisher magnets		✓			97002524
KingFisher 96 tip comb for PCR magnets		✓			97002514

\* Recommended plastics.

# KingFisher plastics for KingFisher instruments

KingFisher instrument:	Duo Prime	Flex	Apex	Presto	Cat. No.
<b>Plastics for 24 deep-well format</b>					
KingFisher Apex 24 combi tip comb			✓		97002580
KingFisher 24 deep-well plate, barcoded			✓		95040470B
KingFisher 24 deep-well plate, sterile, barcoded			✓		95040480B
KingFisher 24 deep-well tip comb and plate, barcoded			✓		97002610B
KingFisher 24 deep-well tip comb and plate, sterile, barcoded			✓		97002620B
Nunc 24 storage tubes*			✓		374323
KingFisher 24 deep-well plate	✓	✓		✓	95040470
KingFisher 24 deep-well plate, sterile	✓	✓		✓	95040480
KingFisher 24 deep-well tip comb and plate		✓		✓	97002610
KingFisher 24 deep-well tip comb and plate, sterile		✓		✓	97002620
<b>Plastics available for Duo Prime instrument only</b>					
KingFisher Duo Prime 6-tip combs and 24 deep-well plate (12 pieces of 24 deep-well plates, each including 4 tip combs)	✓				97003510
KingFisher Duo Prime 12-tip comb, for 96 deep-well plate	✓				97003500
KingFisher Duo Prime 12-tip elution strip	✓				97003520
KingFisher Duo Prime elution strip cap for 12 pin magnet	✓				97003540
KingFisher combi pack for microtiter 96 deep-well plate, includes 8 each of: <ul style="list-style-type: none"> <li>• 96 deep-well plate</li> <li>• 12-tip comb</li> <li>• Elution strip</li> <li>• Cap for elution strip</li> </ul>	✓				97003530

\* Recommended plastics.

# KingFisher instrument services and support



## Instrument and application specialists

Whether servicing your KingFisher purification system or addressing your workflow application questions, our more than 1,000 trained professionals make up the industry's largest network, ready to assist you when you need it.



## Quick-start training

The KingFisher system includes SmartStart Orientation to help get you up and running quickly in your lab. The orientation includes basic familiarization and setup with online instrument management and includes on-site training with standard kits.



## Warranty and service plans

Every KingFisher system comes with a one-year warranty. Extended-coverage service plans are also available at the time of instrument purchase. Whether your laboratory requires our highest service levels and adherence to stringent regulatory guidelines, or you need to maximize performance with a limited budget—or anything in between—we'll work with you to develop a solution that best suits your needs.

Find out more at [thermofisher.com/instrumentservices](https://thermofisher.com/instrumentservices) and [thermofisher.com/contactus](https://thermofisher.com/contactus)

## Ordering information

Product	Cat. No.
<b>KingFisher instruments</b>	
KingFisher Apex Purification System with 96 PCR Head**	5400910
KingFisher Apex Purification System with 96 Combi Head**	5400920
KingFisher Apex Purification System with 96 Deep-Well Head**	5400930
KingFisher Apex Purification System with 24 Combi Head**	5400940
KingFisher Flex Purification System with 96 PCR Head**	5400610
KingFisher Flex Purification System with 96 KingFisher Head**	5400620
KingFisher Flex Purification System with 24 Deep-Well Head**	5400640
KingFisher Flex Purification System with 96 Deep-Well Head**	5400630
KingFisher Duo Prime Purification System	5400110
KingFisher Presto Purification System with 24 Deep-Well Head**	5400840
KingFisher Presto Purification System with 96 Deep-Well Head**	5400830
<b>Nucleic acid purification products</b>	
KingFisher Duo-Ready DNA Ultra 2.0 Prefilled Plates	A36584
KingFisher Flex-Ready DNA Ultra 2.0 Prefilled Plates	A36586
MagMAX <i>mirVana</i> Total RNA Isolation Kit	A27828
MagMAX DNA Multi-Sample Ultra 2.0 Kit*	A36570
MagMAX Saliva gDNA Isolation Kit*	A39060
MagMAX Cell-Free DNA Isolation Kit*	A29319
MagMAX Cell-Free Total Nucleic Acid Isolation Kit*	A36716
MagMAX FFPE DNA/RNA Ultra Kit*	A31881
MagMAX Microbiome Ultra Nucleic Acid Isolation Kit*	A42357, A42358
MagMAX Viral/Pathogen Nucleic Acid Isolation Kit*	A42352
MagMAX Viral/Pathogen Ultra Nucleic Acid Isolation Kit*	A42356
MagMAX Plant DNA Isolation Kit*	A32549
MagMAX Plant RNA Isolation Kit	A33784
MagMAX Wastewater Ultra Nucleic Acid Isolation Kit	A52606
MagMAX Wastewater Ultra Nucleic Acid Isolation Kit with Virus Enrichment	A52610
Dynabeads mRNA DIRECT Purification Kit	61011
<b>Immunoprecipitation and protein products</b>	
Dynabeads Protein A	10002D
Dynabeads Protein G	10004D
Dynabeads M-280 Sheep Anti-Mouse IgG	11202D
Dynabeads M-280 Sheep Anti-Rabbit IgG	11204D
Dynabeads M-280 Streptavidin	11206D
Dynabeads His-Tag Isolation and Pulldown	10103D
Pierce Streptavidin Magnetic Beads	88817
Pierce Protein A/G Magnetic Beads	88803
Pierce Protein A/G Magnetic Agarose Beads	78609
Pierce Ni-NTA Magnetic Agarose Beads	78605
Pierce Anti-DYKDDDDK Magnetic Agarose Beads	A36797
Pierce Glutathione Magnetic Agarose Beads	78601
SMART Digest kits for peptide mapping and quantitation	60109-101-MB-60109-109-MB
SMART Digest IA kits for peptide quantitation	60110-103-60112-104

\* May be purchased as individual bulk reagents.

\*\* For Laboratory Use.

### More beads, more applications

There are many more magnetic bead kits available that can be automated on KingFisher instruments. Find the right kit for your application at [thermofisher.com/kingfisherkits](https://thermofisher.com/kingfisherkits)

 Learn more at [thermofisher.com/kingfisher](https://thermofisher.com/kingfisher)