



Nucleic acid isolation

KingFisher Duo Prime Purification System

Experience consistency and reproducibility with an affordable, automated sample purification system

Are you still using manual processes for DNA, RNA, protein, and cell purification?

Affordable automation is now within reach

The Thermo Scientific™ KingFisher™ Duo Prime Purification System is an automated magnetic bead purification system. The system delivers high-quality samples with reduced hands-on time compared to manual methods.

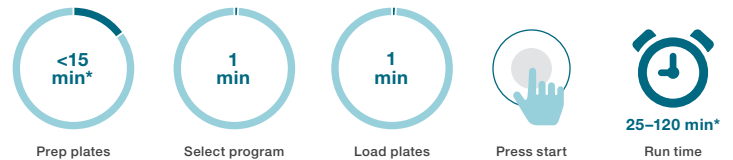
Your samples, consistently

Thermo Scientific™ KingFisher™ instruments are designed to 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 real-time PCR (qPCR), next-generation sequencing (NGS), digital PCR (dPCR), and mass spectrometry.

Your samples, more easily

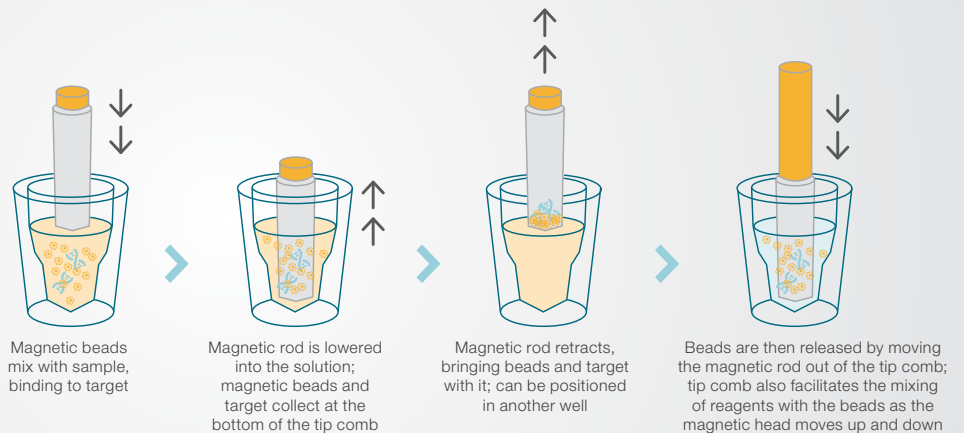
KingFisher instruments offer optimized, easy-to-follow protocols for nearly every downstream application or sample type.

Typical run with the KingFisher instrument



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.
























Key features include:

- Automated magnetic bead purification system for DNA, RNA, proteins, and cells
- Barcode reader to help improve traceability
- Built-in ultraviolet (UV) lamp designed for effective decontamination
- Customizable workflow for different sample types, reagents, and protocols
- Ready-made, easy-to-start protocols for different types of applications
- Thermo Scientific™ KingFisher™ plastics designed for ideal magnetic particle processing

The KingFisher Duo Prime system supports a variety of analytes and sample types for a wide range of protocols from trusted reagents.

Legend	 Blood	 Cell culture	 Clean-up	 Buccal swab	 Viral transport media (VTM)	 Wastewater
	 Plant tissue	 FFPE	 Feces	 Other swabs	 Fungi	
	 Tissue (non-plant)	 Plasma or serum	 Saliva	 Urine	 Soil	

Thermo Scientific™, Applied Biosystems™, and Invitrogen™ nucleic acid purification products

Analyte	Sample type	Specialty kit	Cat. No.
Total RNA (excluding small RNA)		MagMAX <i>mir</i> Vana Total RNA Isolation Kit	A27828
		MagMAX Plant Isolation Kit	A33784
True total RNA (miRNA and large)		MagMAX <i>mir</i> Vana Total RNA Isolation Kit	A27828
		MagMAX Cell-Free Total Nucleic Acid Isolation Kit	A36716
		MagMAX FFPE DNA/RNA Ultra Kit	A31881
		MagMAX Total Nucleic Acid Isolation Kit	AM1840
mRNA (polyA selected)		Dynabeads mRNA DIRECT Purification Kit	61011
		Dynabeads mRNA DIRECT Micro Purification Kit	61021
		Dynabeads mRNA Purification Kit	61006
DNA		MagMAX DNA Multi-Sample Ultra 2.0 Kit	A36570
		KingFisher Duo-Ready DNA Ultra 2.0 Prefilled Plates	A36584
		MagMAX Cell-Free DNA Isolation Kit	A29319
		MagMAX Total Nucleic Acid Isolation Kit	AM1840
		MagMAX FFPE DNA/RNA Ultra Kit	A31881
		MagMAX saliva gDNA Isolation Kit	A39059 A39060
		MagMAX Plant DNA Isolation Kit	A32549 A32580
		MagMAX Microbiome Ultra Nucleic Acid Isolation Kit, with bead tubes	A42358
	MagMAX Microbiome Ultra Nucleic Acid Isolation Kit, with bead plate	A42357	
Bacterial/fungal/viral nucleic acid		MagMAX Viral/Pathogen Ultra Nucleic Acid Isolation Kit	A42356
		MagMAX Viral/Pathogen Nucleic Acid Isolation Kit	A42352
		MagMAX Microbiome Ultra Nucleic Acid Isolation Kit, with bead tubes	A42358
		MagMAX Microbiome Ultra Nucleic Acid Isolation Kit, with bead plate	A42357
		MagMAX Wastewater Ultra Nucleic Acid Isolation Kit	A52606
		MagMAX Wastewater Ultra Nucleic Acid Isolation Kit with Virus Enrichment	A52610
Total nucleic acid		MagMAX Cell-Free Total Nucleic Acid Isolation Kit	A36716
		MagMAX Microbiome Ultra Nucleic Acid Isolation Kit, with bead tubes	A42358
		MagMAX Microbiome Ultra Nucleic Acid Isolation Kit, with bead plate	A42357
		MagMAX Total Nucleic Acid Isolation Kit	AM1840

Invitrogen™ immunoprecipitation and protein products

Protein isolation and immunoprecipitation	Dynabeads Protein A for Immunoprecipitation	10002D
		10008D
	Dynabeads Protein A Immunoprecipitation Kit	10006D
	Dynabeads Protein G for Immunoprecipitation	10004D
		10009D
	Dynabeads Protein G Immunoprecipitation Kit	10007D
	Dynabeads Sheep Anti-Mouse IgG	11202D
	Dynabeads Sheep Anti-Rabbit IgG	11204D
Virus/exosome isolation	Dynabeads Intact Virus Enrichment	10701D
	Dynabeads CD3	1115D

KingFisher instrument services and support



Instrument and application specialists

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



Quick-start training

The KingFisher system includes SmartStart Orientation to 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 the 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.

Specifications

Applications	DNA and RNA isolation from various starting materials; proteomic applications; cell isolation
Samples per run	Up to 12 with 12-pin magnet head
	Up to 6 with 6-pin magnet head
Max sample load	24
Plastic consumables	96 deep-well plate
	24 deep-well plate
	1 x 12 elution strip
Volume range	30–1,000 µL (12-pin magnet head)
	200–5,000 µL (6-pin magnet head)
Heating and cooling	10–75°C in RT (plate row A)
	4–75°C in RT (elution strip)
UV lamp	8W
UV exposure time	Up to 16 hours
Internal memory	Space for about 200 protocols
Protocol import	Using Thermo Scientific™ BindIt™ Software or USB memory device
Computer interface	USB
Size W x D x H	40 x 46 x 34 cm (15.7 x 18.1 x 13.4 in.)
Weight	17 kg (37.5 lb)

A complete system that automates sample preparation

Ordering information

Description	Cat. No.
System	
KingFisher Duo Prime Purification System	5400110
Accessories	
2D Barcode Reader for KingFisher Duo Prime system	N16640
Plastics for 96 deep-well format	
KingFisher 96 deep-well plate	95040450
KingFisher 96 deep-well plate, sterile	95040460
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	97003530
Includes 8 each of 96 deep-well plate, 12-tip comb, elution strip, cap for elution strip	
Plastics for 24 deep-well format	
KingFisher 24 deep-well plate	95040470
KingFisher 24 deep-well plate, sterile	95040480
KingFisher Duo Prime 6-tip comb and 24 deep-well plate (12 pieces of 24 deep-well plates, each including 4 tip combs)	97003510

Learn more at thermofisher.com/kingfisherduo

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