

pure flexibility unparalleled performance

- Use variety of starting material Get extremely high yield and quality
 - Increase your productivity and efficiency





ensure sample purity

The accuracy of your results depends on high-quality, reproducible purification of nucleic acid, protein and cell samples. Thermo Scientific KingFisher purification systems, now feature dedicated Thermo Scientific KingFisher Kits for nucleic acid purification and deliver unparalleled purification in an optimized workflow.

- Choose from four distinct systems for the best match to your applications and throughput needs
- Optimized kits complete the unique nucleic acid purification workflow for a wide variety of sample types
- Thermo Scientific Bindlt software increases flexibility for customized protocols
- Specially designed consumables for efficient sample processing



instant benefits in productivity

Notice an immediate difference with KingFisher systems. You can or will be able to purify samples at speeds never thought possible, with minimal hands-on time, as the automation takes over. KingFisher systems free you to concentrate on more involved downstream analyses.



KingFisher purification processing uses advanced magnetic particle technology to deliver up to 96 samples every 15 mins (depending on application).

Out-of-the-box solutions available to add flexibility and enhance your workflow.

KingFisher purification technology ensures impurities are removed; improved sample quality leads to better downstream analyses. Resulting DNA and RNA is free of protein, nucleases and other contaminants.

Wide range of starting material and sample input volumes

complete nucleic acid purification

KingFisher Instruments with patented technology use magnetic rods to move particles through purification phases of binding, washing and elution to yield high purity DNA and RNA. Our magnetic beads feature the high surface area, uniform size and excellent suspension stability that are ideal for automated processing.

Bindlt Software gives you flexibility. Modify prewritten protocols or create your own to handle more applications. You can interface KingFisher Flex instrument with liquid handling, robotics and platestacking instruments to fully automate your workflow for higher throughput.

KingFisher Kits handle routine to advanced requirements, covering a broad range of sample types. Select kits for blood DNA, total RNA, cell and tissue DNA, viral NA, and plant DNA. Each is optimized for highest performance with KingFisher instruments. Use them for typical downstream analysis, including: PCR/qPCR, sequencing, hybridization techniques and enzymatic applications.

KingFisher consumables, made of polypropylene, are ideal for magnetic particle processing due to their low binding affinity for biomolecules. Both the yield and the quality of the isolated DNA/RNA are significantly improved with special KingFisher plates and tips.

limitless applications

KingFisher systems provide the flexibility researchers require to meet evolving needs. The systems include numerous prewritten protocols for many applications. You can also customize existing protocols and create new ones for protein and cell applications. Magnetic bead technology enables a number of

protein applications (e.g., recombinant protein or glycoprotein purification, peptide fractionation and protein phosphorylation). Also, a variety of cell isolation applications can be automated, including cancer or white blood cell isolation and bacterial cell separation.

Total Thermo Scientific Nucleic Acid Purification and Analysis Workflow

Liquid Handling



Thermo Scientific Versette automated liquid handling system for sample and reagent dispensing



Thermo Scientific Multidrop Combi automated dispensing for plate filling

DNA/RNA purification



Thermo Scientific KingFisher Kit reagents for purifiying DNA/RNA







Plant DNA

Viral NA



Thermo Scientific KingFisher family of magnetic particle processors

unparalleled performance

KingFisher systems deliver excellent performance and reproducible results. Your purified nucleic acid, protein and isolated cells are ready for downstream analyses. KingFisher systems isolate DNA, RNA and protein in significant quantities from a variety of material sources, including cell-free body fluids, blood, bacteria, cell culture, tissue, various and plant tissue. Automation eliminates cross-contamination and reagent cross-over and the magnetic bead separation technology ensures high-quality DNA, RNA and protein.



Figure RNA: Total RNA purified from HeLa-S3 cells with KingFisher Total RNA Kit and KingFisher Flex instrument show consistency and good quality of purified RNA. The RNA integrity number (RIN) of the samples was 10, indicating that RNA was intact in all of the samples.

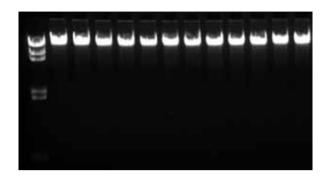


Figure Blood: High yield of genomic DNA was purified from Blood samples by using KingFisher Blood DNA Kit and KingFisher Flex instrument. The band on the agarose gel is clear and there is no smear indicating that gDNA is pure and undegraded.

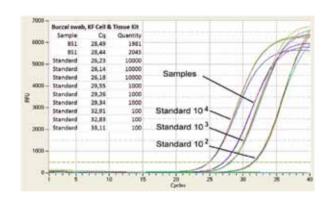


Figure Buccal: KingFisher Cell and Tissue Kit together with KingFisher Duo instrument was used to purify DNA from buccal swabs. The results from the qPCR performed with Thermo Scientific PikoReal qPCR instrument indicate excellent yield and purity of DNA.

DNA/RNA analysis



Thermo Scientific NanoDrop series of small volume UV-Vis spectrophotometers



Theri Piko for PC

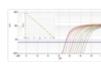
PCR/qPCR

Thermo Scientific Piko Thermal Cycler for PCR applications



Thermo Scientific PikoReal Real-Time PCR System for qPCR applications







Thermo Scientific Multiskan GO UV-Vis cuvetteand plate spectrophotometers

meet the KingFisher family

Our revolutionary patented magnetic separation technology lets you process virtually any sample from any source for the ultimate in isolation of nucleic acids, proteins and cells. With four systems to choose from, Thermo Scientific KingFisher systems provide the performance, flexibility and speed for your budget, application and throughput requirements.

KingFisher Flex: With high-throughput or processing volume up to 5 mL, Flex system offers truly versatile purification of nucleic acids and proteins. The range of volumes is 20-5000 µL depending on the magnet head with 96- or 24-well format. Use predefined protocols or customize your own for special applications.

KingFisher Duo: New to the KingFisher family, Duo system delivers advanced functionality in a compact, mid-throughput capacity instrument for isolation applications. Its small footprint and big functionality, including traceability and data management, make it a perfect fit for research and routine laboratories. Two protocols can run sequentially without interruption, raising throughput up to 24 samples per load. Duo system also includes large volume processing up to 5 mL.

KingFisher mL: The economical choice for easy processing of up to 15 samples. Volumes from 50 to 1000 µL can be processed via tube strips.

KingFisher: The first in the family, KingFisher system allows small-scale samples to be purified economically. Up to 24 samples ranging in size from 20 to 200 µL can be run at one time. All purification and processing steps, programmed using simple pushbutton operation, are carried out in microstrips.

KingFisher Kits: Now, with optimized Thermo Scientific KingFisher purification kits, you can easily perform blood DNA, total RNA, cell and tissue DNA, viral NA and plant DNA extraction. KingFisher instruments, software, kits and consumables deliver unparalleled performance.









Instrument	Flex		Duo		mL	KF
Samples/run	96	24	12(24)	6	15	24
Working volume	20-1000	200-5000	30-1000	200-5000	50-1000	20-200

Cat. No.	KingFisher instruments				
	•				
22387001	KingFisher, 100-240 V, 50/60 Hz				
22387002	KingFisher mL, 100-240 V, 50/60 Hz				
14387290	KingFisher Duo, 100-240 V, 50/60 Hz				
22387003	KingFisher Flex with 96 PCR head, 100-240 V, 50/60 Hz				
22387004	KingFisher Flex with 96 KF head, 100-240 V, 50/60 Hz				
22387005	KingFisher Flex with 96 deep-well head, 100-240 V, 50/60 Hz				
22387006	KingFisher Flex with 24 deep-well head, 100-240 V, 50/60 Hz				
00007004	Consumables for KingFisher				
22387021	KingFisher tip comb, 50 pcs				
22387022	KingFisher plate 100 μL, 50 pcs				
22387023	KingFisher plate 200 μL, 50 pcs				
	Consumables for KingFisher mL				
22387024	KingFisher mL tip comb, 800 pcs				
22387025	KingFisher mL tube, 900 pcs				
22387026	KingFisher mL Combi 240, (tubes and tip combs for 240 samples)				
	Consumables for KingFisher Duo				
14387291	KingFisher Duo 12-tip comb, for Microtiter 96 deep-well plate, 50 pcs				
14387292	KingFisher Duo 6-tip combs, for KingFisher Flex 24 deep-well plate, 48 pcs				
14387293	KingFisher Duo elution strip, 40 pcs				
14387294	KingFisher Duo Combi pack for Microtiter 96 deep-well plate (tips combs, plates and elution strips for 96 samples)				
	Consumables for KingFisher Flex				
22387027	KingFisher 96 tip comb for PCR magnets, 80 pcs				
22387028	KingFisher 96 tip comb for KF 96 magnets, 100 pcs				
22387029	KingFisher 96 tip comb for KF 96 magnets, 100 pcs				
22387030	KingFisher 96 KF plate, 48 pcs				
22387031	Microtiter deep-well 96 plate, 50 pcs				
22387032	Microtiter deep-well 96 plate, sterile, 50 pcs				
22387033	KingFisher Flex 24 deep-well tip comb and plate, 50 pcs of each				
22387034	KingFisher Flex 24 deep-well plate, 50 pcs				
22387035	KingFisher Flex 24 deep-well plate Sterile, 50 pcs				
22387036	Cap Mat for DW 96 plate, 50 pcs				
22387037	Cap Mat for DW 96 plate, sterile, 25 pcs				
	KingFisher Kits				
22387039	KingFisher Blood DNA kit, 96 preps				
22387041	KingFisher Total RNA kit, 96 preps				
22387043	KingFisher Cell and Tissue DNA kit, 96 preps				
22387045	KingFisher Viral NA kit, 96 preps				
22387046	KingFisher Plant DNA kit, 96 preps				



In the United States: For customer service, call 1-800-766-7000. To fax an order, use 1-800-926-1166. To order online: www.fishersci.com

