



Thermo Scientific KingFisher
Automated Purification Systems



Primed for Performance

- Automated purification system for a range of applications.



Complete nucleic acid and protein purification system

Ensure sample purity

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 samples with minimal hands-on time, helping you optimize your workflow.

- Choose from four 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 lets you create customized protocols for additional flexibility
- Specially designed consumables for efficient sample processing



Magnetic separation technology

KingFisher instruments use magnetic rods to move particles through the purification phases of binding, washing and elution to yield high-quality DNA, RNA and proteins. This revolutionary technology minimizes impurities, delivering samples that are ready for downstream analysis.



Diverse applications

KingFisher systems provide the flexibility required to meet evolving research needs, including prewritten protocols for a variety of applications.

- Nucleic acid purification from various starting materials including cell-free body fluids, blood, bacteria, cell culture and various tissues.
- Protein applications including immunoprecipitation, affinity purification, fusion protein purification and phosphopeptide enrichment
- Cell separation including cancer or white blood cell isolation and bacterial cell separation



You can also customize existing protocols and create new ones for protein and cell applications with the versatile BindIt software.



Meet the KingFisher family

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

KingFisher Flex: Designed to process up to 96 samples at a time, with volumes up to 5 mL, the versatile KingFisher Flex system has four interchangeable magnetic heads for plates of various sizes—including 24- and 96-well and deep well plates, and PCR plates. You can choose from a range of volumes (20-5000 μ L), depending on the magnet head and plate. The KingFisher Flex instrument can be integrated with liquid handling, robotics and plate-stacking instruments to fully automate your workflow for higher throughput.



BindIt software: gives you the flexibility you need to get the most out of your KingFisher system. Modify prewritten protocols or create your own to handle more 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.

KingFisher Duo Prime: The newest addition to the family, the KingFisher Duo Prime system automates purification processes for research and routine laboratories working with a smaller number of samples. The system delivers high quality yields with excellent reproducibility and reliability. New features include a barcode reader for traceability and built-in UV lamp designed for effective decontamination. Run 24 samples per load and 2 protocols sequentially, with processing volumes ranging from 30 μ L- 5 mL.



KingFisher Pure DNA/RNA Kits:

Our KingFisher Pure Kits are paired with KingFisher instruments, forming a cohesive, validated system of rapid purification to produce the highest quality nucleic acid samples compatible with most common enzymatic downstream analyses and applications.



KingFisher mL: The economical choice for easy operation of up to 15 samples. Processing volumes range from 50 to 1000 μ L carried out in tube strips.



KingFisher: The first in the family, the KingFisher system allows users to purify small-scale samples economically. Run up to 24 samples in 20-200 μ L. All purification and processing steps, programmed using simple push-button operation, are carried out in microstrips.

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

Ordering information

Product #	Description
KingFisher instruments	
22-387-001	KingFisher, 100-240 V, 50/60 Hz
22-387-002	KingFisher mL, 100-240 V, 50/60 Hz
14-387-700	KingFisher Duo Prime, 100-240 V, 50/60 Hz
22-387-003	KingFisher Flex with 96 PCR head, 100-240 V, 50/60 Hz
22-387-004	KingFisher Flex with 96 KF head, 100-240 V, 50/60 Hz
22-387-005	KingFisher Flex with 96 deep-well head, 100-240 V, 50/60 Hz
22-387-006	KingFisher Flex with 24 deep-well head, 100-240 V, 50/60 Hz
Consumables for KingFisher	
22-387-021	KingFisher tip comb, 50 pcs
22-387-022	KingFisher plate 100 µL, 50 pcs
22-387-023	KingFisher plate 200 µL, 50 pcs
Consumables for KingFisher mL	
22-387-024	KingFisher mL tip comb, 800 pcs
22-387-025	KingFisher mL tube, 900 pcs
22-387-026	KingFisher mL Combi 240, (tubes and tip combs), for 240 samples
Consumables for KingFisher Duo Prime	
14-387-291	KingFisher Duo 12-tip comb, for KingFisher deep-well 96 plate, 50 pcs
14-387-292	KingFisher Duo 6-tip combs, for KingFisher Flex 24 deep-well plate, 48 pcs
22-387-034	KingFisher Flex 24 deep-well plate, 50 pcs
14-387-293	KingFisher Duo elution strip, 40 pcs
14-387-737	KingFisher Duo Cap for elution strip, 40 pcs/box
14-387-294	KingFisher Duo Combi pack for KingFisher deep-well 96 plate (tips combs, plates, elution strips and cap strips for 96 samples)

Product #	Description
Consumables for KingFisher Flex	
22-387-027	KingFisher 96 tip comb for PCR magnets, 80 pcs
22-387-028	KingFisher 96 tip comb for KF 96 magnets, 100 pcs
22-387-029	KingFisher 96 tip comb for deep-well magnets, 10 x 10 pcs/box
22-387-030	KingFisher 96 KF plate, 48 pcs
22-387-031	KingFisher deep-well 96 plate, 50 pcs
22-387-032	KingFisher deep-well 96 plate, sterile, 50 pcs
22-387-033	KingFisher Flex 24 deep-well tip comb and plate, 50 pcs of each
22-387-034	KingFisher Flex 24 deep-well plate, 50 pcs
22-387-035	KingFisher Flex 24 deep-well plate Sterile, 50 pcs
14-387-93	Cap Mat for DW 96 plate, 50 pcs
14-387-94	Cap Mat for DW 96 plate, sterile, 25 pcs
KingFisher Pure DNA/RNA Kits	
22-387-062	KingFisher Pure DNA Blood Kit, 96 preps
22-387-063	KingFisher Pure DNA Blood Kit, 384 preps
22-387-064	KingFisher Pure RNA Blood Kit, 96 preps
22-387-043	KingFisher Cell and Tissue DNA Kit, 96 preps
22-387-065	KingFisher Pure RNA Tissue Kit, 96 preps
22-387-066	KingFisher Pure RNA Tissue Kit, 384 preps
22-387-067	KingFisher Pure DNA Plant Kit, 96 preps
22-387-068	KingFisher Pure DNA Plant Kit, 384 preps
22-387-069	KingFisher Pure RNA Plant Kit, 96 preps
22-387-070	KingFisher Pure RNA Plant Kit, 384 preps
22-387-071	KingFisher Pure Viral NA Kit, 96 preps
22-387-072	KingFisher Pure Viral NA Kit, 384 preps
22-387-073	KingFisher Pure Plasmid Kit, 96 preps
22-387-074	KingFisher Pure Plasmid Kit, 384 preps



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