

Thermo Scientific KingFisher Pure Kits



Pure performance
every time



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We've expanded our unique nucleic acid purification workflow, providing optimized high-throughput methods and extreme flexibility!

- Flexible KingFisher system with eight optimized purification kits
- Dedicated kits for RNA or DNA in a wide variety of sample types
- Excellent yield, purity and reproducibility
- Walk-away solution for any throughput

Highly Reproducible Purification

The Thermo Scientific™ KingFisher™ system offers a rapid, automated and reproducible purification workflow, by using magnetic rods to move particles through the purification phases of binding, washing and elution. After sample lysis, nucleic acids bind efficiently with coated magnetic beads. Washing the nucleic acid/bead complex several times eliminates contaminants, producing highly pure DNA or RNA.

By eliminating laborious manual steps and purification problems such as filter clogging and risk of contamination, the KingFisher system consistently produces high purity yields.

Flexible Throughput

The KingFisher system can easily be scaled-up in terms of sample input volume and throughput – from 1 to 96 samples per run. Larger sample input volumes, for example up to 1 mL of blood, can be processed by the Thermo Scientific KingFisher Flex and KingFisher Duo instruments.

Minimized Hands-on Time

High sample purity and yields are obtained with minimal user input, and the maximized walk-away time ensures efficiency.

Safe and Easy

The easy-to-use KingFisher system and straightforward Thermo Scientific BindIt software protocols facilitate safe sample handling.

Optimized KingFisher Pure Kits and Protocols

Thermo Scientific KingFisher Pure Kits and protocols have been optimized with KingFisher systems for the rapid purification of the highest quality and yields of DNA or RNA, compatible with most common enzymatic downstream analyses and applications. There is no need for organic solvents.



Premium Quality Beads

The KingFisher Magnetic Beads are characterized by high surface area, uniform size distribution and excellent suspension stability, making them ideal for high throughput processing.

Wide Range of Samples

From routine use to advanced requirements, KingFisher Pure Kits are available for both DNA and RNA purification in a broad variety of sample types, including blood, serum, cells, tissues and plant material.

Excellent Performance

All eight customized KingFisher Pure Kits produce nucleic acids of high yield and quality. Kits are optimized for:



Blood DNA



Plant DNA



Tissue DNA



Plasmid DNA



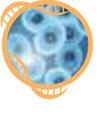
Viral DNA/RNA



Blood RNA



Plant RNA



Tissue RNA



Figure 1. Genomic DNA purified from 200 µl of blood using the KingFisher Pure DNA Blood Kit shows excellent quality of gDNA on the agarose gel.

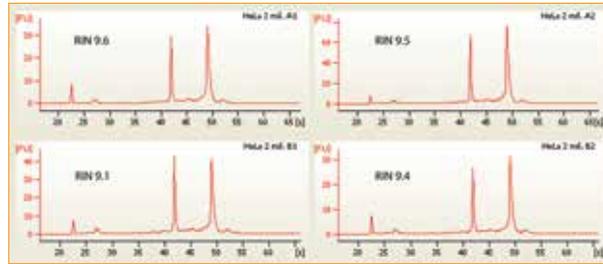


Figure 2. Total RNA purified from 2×10^6 HeLa cells using the KingFisher Pure RNA Tissue Kit shows intact RNA when analyzed on the Agilent Bioanalyzer 2100.

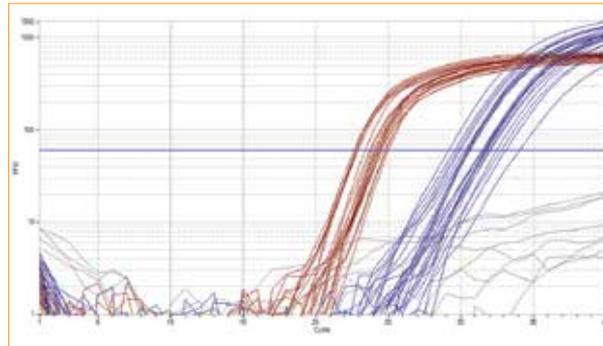


Figure 3. The RNA purified from 200 µl blood using KingFisher Pure RNA Blood Kit was used as a template in a gene expression study with Thermo Scientific PikoReal Real Time PCR System. Reference gene (GAPDH) in red and target gene in blue (PPIH).

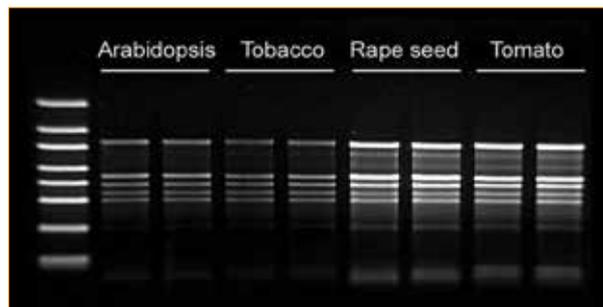


Figure 4. Total RNA purified from 15 mg plant leaves using the KingFisher Pure RNA Plant Kit shows intact RNA on the agarose gel.



Specification and Ordering Information

Product #	Description	Package size	Sample type	Sample input	Elution volume* (µL)	Run time (min)
22-387-062	KingFisher Pure DNA Blood Kit	96	Fresh or frozen whole blood treated with EDTA or citrate	200 µL or 1 mL**	200 µL: 100 µL (Duo) or 150 µL (Flex). 1 mL: 500 µL	40 (200 µL), 45 (1 mL)
22-387-063	KingFisher Pure DNA Blood Kit	384				
22-387-064	KingFisher Pure RNA Blood Kit	96	Fresh or frozen whole blood treated with EDTA or citrate, PaxGene and Tempus preserved blood	200 µL	100 µL (Duo) or 150 µL (Flex)	60
22-387-043	KingFisher Cell and Tissue DNA Kit	96	Tissues, cultured cells or bacteria	Up to 20 mg of tissue, 1 x 10 ⁷ cells, or 1 mL of overnight cultured bacteria	100 µL (Duo) or 150 µL (Flex)	25
22-387-065	KingFisher Pure RNA Tissue Kit	96	Tissues or cultured cells	Up to 20 mg of tissue or 2 x 10 ⁸ cells	100 µL	50
22-387-066	KingFisher Pure RNA Tissue Kit	384				
22-387-067	KingFisher Pure DNA Plant Kit	96	Fresh or frozen plant tissues	Up to 50 mg of fresh plant tissue	100 µL (Duo) or 150 µL (Flex)	40
22-387-068	KingFisher Pure DNA Plant Kit	384				
22-387-069	KingFisher Pure RNA Plant Kit	96	Fresh or frozen plant tissues	Up to 50 mg of fresh plant tissue	100 µL	60
22-387-070	KingFisher Pure RNA Plant Kit	384				
22-387-071	KingFisher Pure Viral NA Kit	96	Cell-free body fluids, such as serum and plasma	200 µL	100 µL	40
22-387-072	KingFisher Pure Viral NA Kit	384				
22-387-073	KingFisher Pure Plasmid Kit	96	Bacterial culture	Up to 5 mL	100 µL	40
22-387-074	KingFisher Pure Plasmid Kit	384				

*Recommended elution volumes, but user adjustable

**With 1 mL samples reagents are sufficient for approx. 25 samples with 96 kit and for approx. 100 samples with 384 kit.

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