

# ISOLATE II Biofluids RNA Kit

A Precious Find

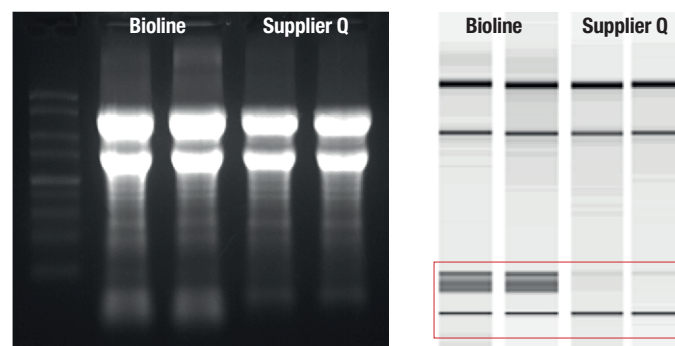
- **Fast:** simple extraction of high-purity total RNA, in as little as 20 minutes
- **Efficient:** high-yield recovery enabling extraction from samples with very low RNA content, including biofluids and viral samples
- **High-performance:** excellent recovery of high quality RNA from a broad range of human and animal biofluids
- **Unbiased :** optimized for recovery of all RNA types from large mRNA and viral RNA to small RNA species including miRNA and siRNA
- **Safe:** no hazardous phenol/chloroform extraction

## ISOLATE II Biofluids RNA Kit provides a simple, efficient column-based method for the isolation of total RNA from biofluids and viruses, without the need for hazardous reagents such as phenol

By combining the stringency of guanidinium-thiocyanate lysis with the speed and ease-of-use of silica-membrane purification, the ISOLATE II Biofluid RNA Kit provides a fast method for the purification of high-quality total RNA from biofluids (Fig. 1) including blood, serum, plasma, urine, saliva and cerebrospinal fluid.

A genomic DNA column is used to remove contaminating genomic DNA. For applications that are very sensitive residual amounts of DNA remaining can be removed using DNase treatment with RNase-free DNase I that is supplied with the kit.

ISOLATE II Biofluids RNA Kit has been designed to deliver optimal performance in RT-qPCR in conjunction with either the SensiFAST™ cDNA Synthesis Kit and SensiFAST™ SYBR® or Probe Kits, or the SensiFAST™ One-Step RT-qPCR Kits. Additionally, ISOLATE II Biofluids RNA Kit can be used to purify samples prior to RT-PCR amplification using Tetro™ Reverse Transcriptase and MyTaq™ DNA Polymerase.



**Fig. 1 High quality total RNA, including small RNA, from biofluids**

RNA was isolated from whole blood using ISOLATE II Biofluids RNA Kit and an equivalent kit from Supplier Q and analyzed by both formaldehyde agarose gel electrophoresis (left panel) and the Agilent 2100 Bioanalyzer (right panel). In contrast to supplier Q, ISOLATE II Biofluids RNA Kit extracted all of the RNA including the small RNA species.

## APPLICATIONS

The isolated RNA is of high purity ( $A_{260}/A_{280}$  ratio: 1.9) and high integrity (RIN>9) and is ready for use in various downstream applications:

- RT-qPCR
- End-point RT-PCR
- Northern, dot and slot blotting
- Array analysis
- Poly A+ RNA selection
- RNA Sequencing
- Biomarker discovery

## FLEXIBLE

Viral RNA can also be isolated from biofluid sources, as well as from cultured cells and tissues. ISOLATE II Biofluids RNA Kit isolates all sizes of RNA from large mRNA, viral RNA and ribosomal RNA (rRNA) down to small RNAs such as microRNA (miRNA) and short interfering RNA (siRNA).

## Ordering Information

ISOLATE II Biofluids RNA Kit	Size	Cat. #
ISOLATE II Biofluids RNA Kit	50 Preps	BIO-52086

Please contact us for institutional pricing, special price quotations and availability of bulk pack sizes.

**For related products, such as our end-point PCR and qPCR kits please visit [www.bioline.com](http://www.bioline.com)**



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