



BenevBio

2010 PRODUCT OFFERINGS

S I M P L I C I T Y W I T H O U T C O M P R O M I S E

BenevBio was founded in order to provide the research community with tools to simplify their work. We understand the needs of today's life science researchers and strive to achieve success for them.

Our scientists have transformed laborious, time-consuming procedures into quick and easy to use procedures defining **simplicity without compromise.**

High quality DNA in as little as 10 minutes.

No phenol/chloroform required.

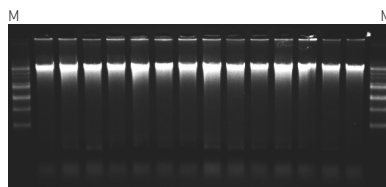
Purified product ideal for PCR and real time quantitative PCR.

HIGH QUALITY DNA

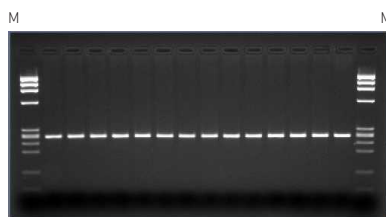
The **BenevBio Genomic DNA Extraction System** is a quick and easy method to extract genomic DNA from mouse tails, fresh or frozen tissues, or cells. The NucleoPur™ columns are specifically designed to bind genomic DNA while proteins and other contaminants are washed out. Purified DNA is obtained free of contaminants, DNases, and enzyme inhibitors. The genomic DNA is suitable for PCR, enzyme digestion, and real time PCR.

KIT COMPONENTS: Each kit includes NucleoPur™ Columns, collection tubes, and the necessary reagents for the extraction of ultrapure genomic DNA.

Real Time PCR data of Actin copy number using DNA from the BenevBio Genomic DNA Extraction System. Varying copy numbers were used to show consistent correlation to cycle amplification



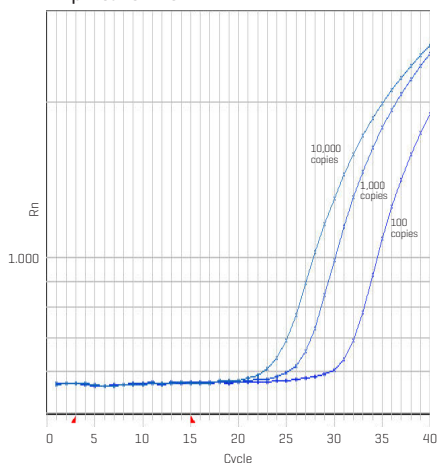
▲ Agarose gel showing consistent DNA yields from mouse tail samples. M: λ DNA-HindIII Digest



▲ PCR amplification of genomic DNA extracted from mouse tail samples using the BenevBio Genomic DNA Extraction System.

M: PhiX174 ladder, 275 bp product.

Amplification Plot



ITEM	CATALOG #	SIZE	PRICE
Genomic DNA System	GEN0001S	50 RXN	\$89.00
Genomic DNA System	GEN0001L	250 RXN	\$389.00

PCR PURIFICATION SYSTEM PPS0001

Purify PCR fragments in as little as 5 minutes.

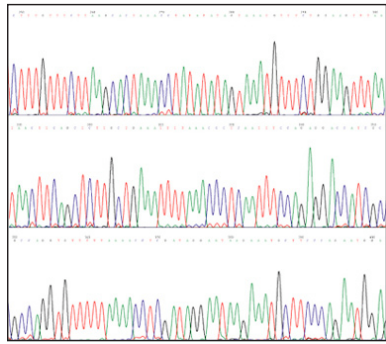
Ideal for digestion, ligation, and sequencing reactions.

**PCR fragment size: 70bp to 10kb.
Elution volume: 6ul-30uls.**

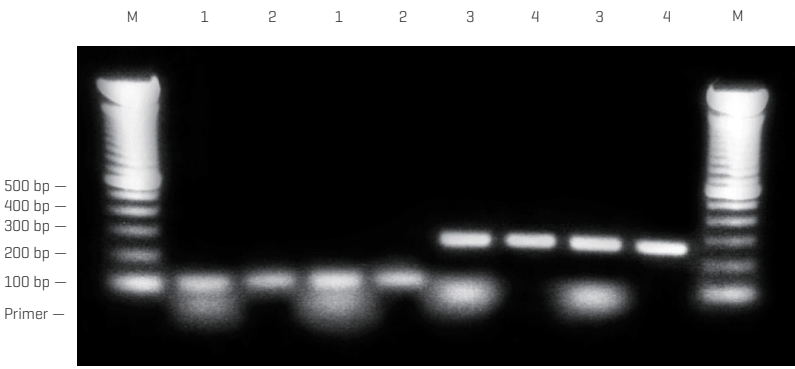
KIT COMPONENTS: Each kit includes NucleoPur™ Columns, collection tubes, and the necessary reagents for the purification of PCR products.

PURIFY PCR EFFICIENTLY

The **BenevBio PCR Purification System** is designed to purify double-stranded DNA fragments from PCR reactions. The NucleoPur™ columns are specifically designed to purify and concentrate PCR fragments from 70bp to 10kb from primers, nucleotides, polymerases, and salts. Samples are efficiently recovered and concentrated in as little as 6µl of H₂O making it ideal for downstream procedures including digestion and ligation reactions.



▲ Typical result from PCR product purification using the BenevBio PCR Purification System, sequenced and analyzed on an ABI PRISM 3700.



▲ PCR samples were purified using the BenevBio PCR Purification System before [1,3] and after [2,4] demonstrating the effective removal of primers and efficient recovery.

ITEM	CATALOG #	SIZE	PRICE
PCR Purification System	PPS0001S	50 RXN	\$75.00
PCR Purification System	PPS0001L	250 RXN	\$345.00

Purify DNA fragments in as little as 15 minutes.

Extract and purify DNA fragments from standard or low-melt agarose gels.

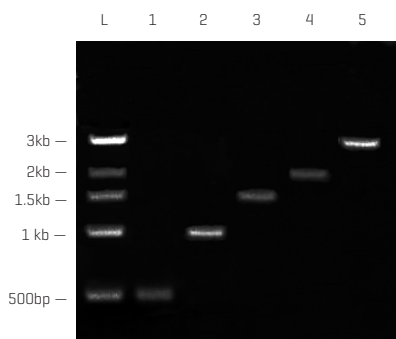
Compatible with TAE and TBE buffer systems.

DNA fragment size: 70bp to 10kb.

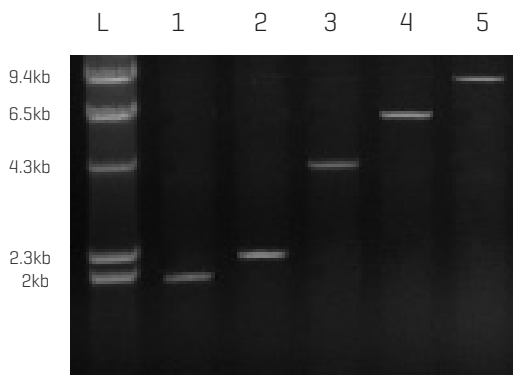
UP TO 95% RECOVERY OF DNA FRAGMENTS

The **BenevBio® Gel DNA Recovery System** is designed to extract and purify DNA Fragments from standard or low-melt agarose gels in TAE or TBE buffer. The NucleoPur™ columns and buffer system are specifically designed to recover DNA fragments ranging from 70bp to 10kb. Samples are efficiently recovered and concentrated in as little as 6µl of H₂O making it ideal for downstream procedures.

KIT COMPONENTS: Each kit includes NucleoPur™ Columns, collection tubes, and the necessary reagents for the purification of DNA fragments from agarose gels.



▲ Gel fragments [sizes indicated] were extracted using the BenevBio Gel DNA Extraction System from lane [L] and loaded onto lanes [1-5] respectively. Samples were analyzed on a 1.0% agarose gel.



DNA fragments [sizes indicated] ► were extracted using the BenevBio Gel DNA Extraction System from [L] and purified product was loaded in lanes [1-5] Samples were analyzed on a 0.8% agarose gel.

ITEM	CATALOG #	SIZE	PRICE
GEL DNA Recovery System	GDE0001S	50 RXN	\$75.00
GEL DNA Recovery System	GDE0001L	250 RXN	\$345.00

High quality total RNA in as little as 15 minutes.

No phenol/chloroform required.

Purified product ideal for downstream applications (northern blot, qRT-PCR, etc).

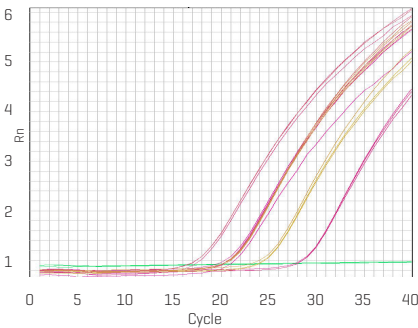
KIT COMPONENTS: Each kit includes NucleoPur™ Columns, collection tubes, and the necessary reagents for the extraction of ultra pure total RNA from various sources.

RNA PRODUCTS

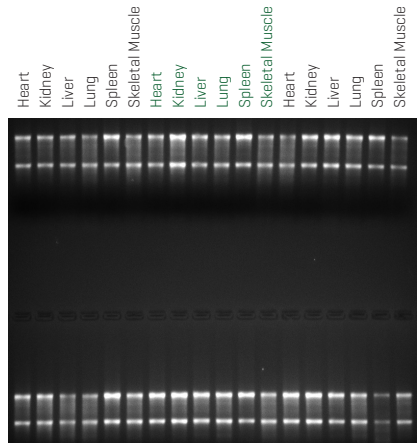
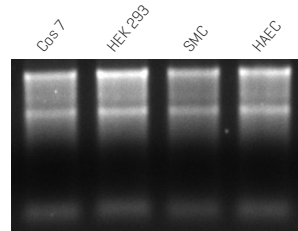
READY-TO-USE RNA

The **BenevBio Total RNA Extraction System** is designed to extract high quality ready-to-use RNA from tissues and cells in as little as 15 minutes. The NucleoPur™ Columns are specifically designed to provide the highest quality RNA with minimum copurification of DNA. Samples are suitable for applications such as RT-PCR, qRT-PCR, cDNA synthesis, Northern blot, and microarray analysis.

AMPLIFICATION PLOT



▲ Quantitative RT-PCR analysis of GAPDH expression from mouse tissues.



▲ Total RNA extracted from cells and various mouse tissues.

ITEM	CATALOG #	SIZE	PRICE
Total RNA Extraction System	TRE0001S	50 RXN	\$165.00
Total RNA Extraction System	TRE0001L	250 RXN	\$750.00

Remove contaminating DNA in as little as 15 minutes.

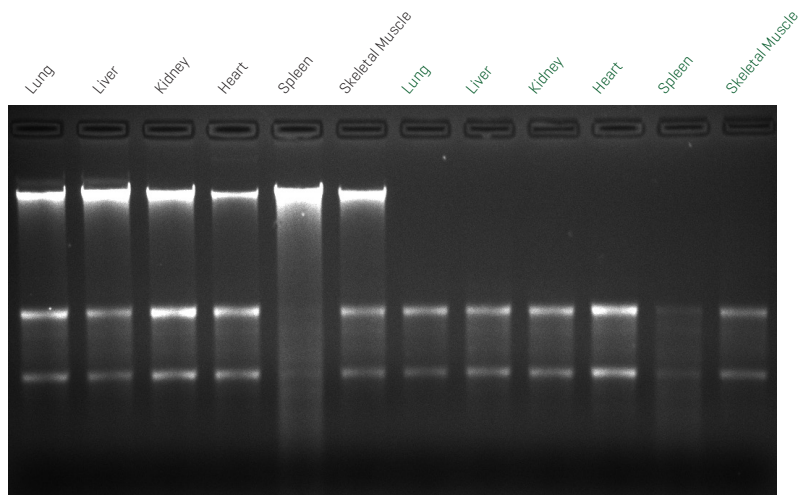
Purify and concentrate RNA samples into volumes as low as 6µl.

Suitable for RT-PCR and microarray analysis.

EFFICIENT DNA REMOVAL

KIT COMPONENTS: Each kit includes NucleoPur™ Columns, collection tubes, and the necessary reagents for ultra-pure RNA purification.

The **BenevBio DNA-Free RNA System** is designed to eliminate contaminating DNA from crude RNA extractions for applications sensitive to small amounts of DNA. The NucleoPur™ Columns efficiently purify and concentrate RNA samples of enzymatic reactions, removing contaminants and organic solvents used in extraction processes. Samples are efficiently recovered and concentrated in as little as 6µl H₂O.



▲ Agarose gel showing efficient removal of contaminating genomic DNA with the DNA free RNA System.

ITEM	CATALOG #	SIZE	PRICE
DNA-Free RNA System	DRS0001S	50 RXN	\$195.00

High quality RNA in as little as 10 minutes.

Extract from plasma, serum, cell free body fluids.

No organic extraction or ethanol precipitation.

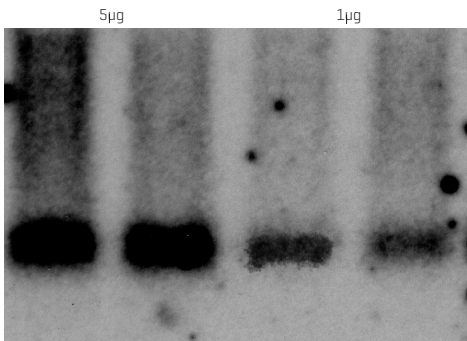
Purified product ideal for northern blot, RT-PCR, qRT-PCR.

The **BenevBio Viral RNA Extraction System** is designed to efficiently extract viral RNA from cell-free body fluids in as little as 10 minutes. Viral RNA specifically binds to the NucleoPur™ columns and is suitable for downstream procedures including Northern Blot, cDNA synthesis, and quantitative RT-PCR.

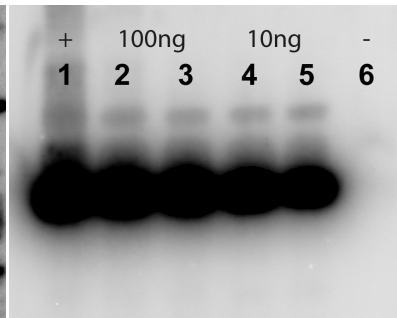
ULTRA-PURE VIRAL RNA

KIT COMPONENTS: Each kit includes NucleoPur™ Columns, collection tubes, and the necessary reagents for ultra-pure viral RNA extraction.

RNA PRODUCTS



▲ Northern blot analysis using a radiolabeled probe to HIV-1.



▲ Polyacrylamide gel showing RT-PCR product using radioactively labeled nucleotides to detect transcripts from HIV samples.

▲ Lane 1 represents the positive control. Lanes 2 ,3 contain 100ng viral RNA, lanes 4,5 contain 10ng viral RNA. Lane 6 represents the negative control.

ITEM	CATALOG #	SIZE	PRICE
Viral RNA Extraction System	VRE0001S	50 RXN	\$165.00
Viral RNA Extraction System	VRE0001L	250 RXN	\$750.00

Purify RNA in as little as 5 minutes.

Efficiently remove RNases and organic solvents from crude preps.

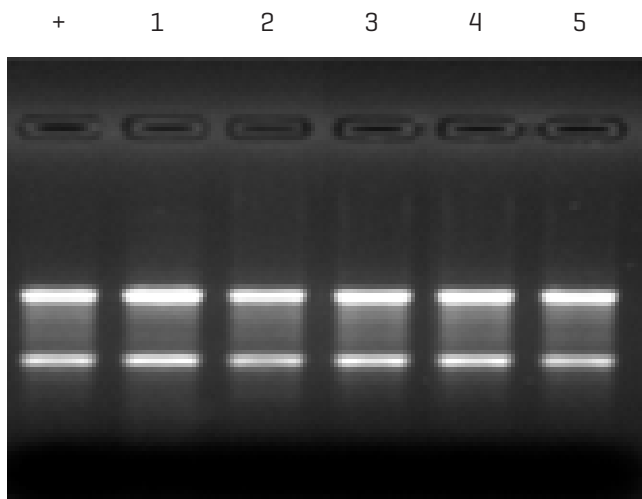
Purified product ideal for RT-PCR and microarray analysis.

Elution volume: 6ul-30uls.

ULTRA-PURE RNA PURIFICATION

KIT COMPONENTS: Each kit includes NucleoPur™ Columns, collection tubes, and the necessary reagents for ultra-pure RNA purification.

The **BenevBio RNA Purification System** is designed to purify RNA from crude RNA preps. The NucleoPur™ columns efficiently purify and concentrate RNA samples of enzymatic reactions, removing RNases and organic solvents used in extraction processes. Samples are efficiently recovered and concentrated in as little as 6µl for sensitive applications including RT-PCR and microarray analysis.



▲ Agarose gel showing consistently high RNA recovery using the BenevBioRNA Purification System.
+: positive control, 1-5: purified RNA using same amount of RNA as the positive control.

ITEM	CATALOG #	SIZE	PRICE
RNA Purification System	RPS0001S	50 RXN	\$165.00
RNA Purification System	RPS0001L	250 RXN	\$750.00

High quality Total RNA and microRNA in as little as 25 minutes.

Extract from all types of animal cells and tissues.

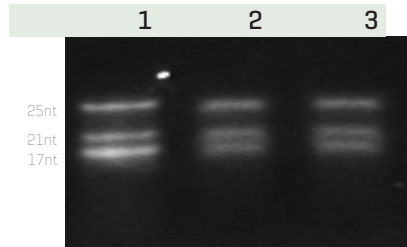
No organic extraction or ethanol precipitation.

Ultra-pure RNA suitable for all downstream procedures including qRT-PCR.

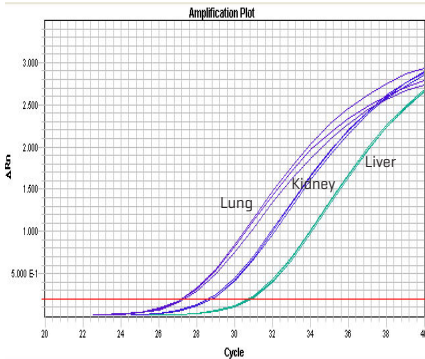
The **BenevBio microRNA Extraction System** extracts Total and microRNA from tissues and cells as little as 25 minutes. Purification of Total RNA including microRNA allows direct comparison of microRNA expression with housekeeping genes. Purified RNA is suitable for quantitative RT-PCR, northern blot, and microarray analysis.

ULTRA-PURE RNA

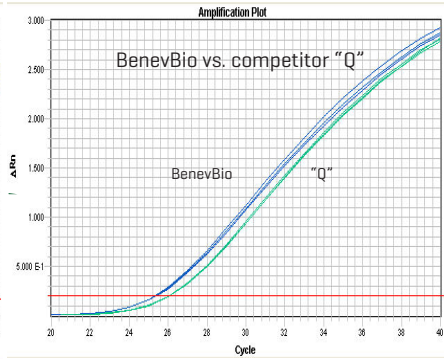
KIT COMPONENTS: Each kit includes NucleoPur™ Columns, collection tubes, and the necessary reagents for ultra-pure microRNA extraction.



▲ Efficient purification of microRNA.
1: Control 2,3: Purified microRNA.



▲ Quantitative real-time pcr data analysis of miR-186 from different mouse tissues from microRNA extracted using the BenevBio microRNA Extraction System.

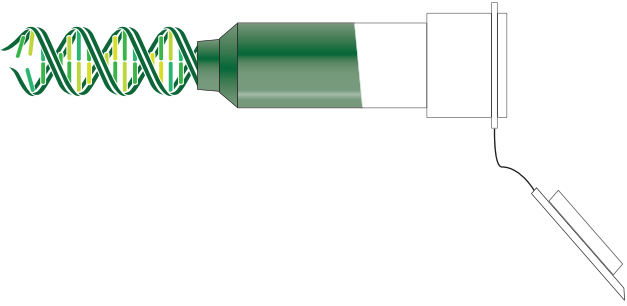


▲ Quantitative real-time pcr data analysis of RNU48 from microRNA extracted from Cos7 cells using the BenevBio microRNA Extraction System.

ITEM	CATALOG #	SIZE	PRICE
microRNA Extraction System	MRE0001S	50 RXN	\$219.00

ITEMIZED KITS & REFILLS

ITEM	CATALOG#	SIZE	PRICE	SIZE	PRICE
Genomic DNA System	GEN0001S	50rxn	\$89.00	GEN0001L	250rxn \$389.00
PCR Purification System	PPS0001S	50rxn	\$75.00	PPS0001L	250rxn \$345.00
Gel DNA Recovery System	GDE0001S	50rxn	\$75.00	GDE0001L	250rxn \$345.00
Total RNA Extraction System	TRE0001S	50rxn	\$165.00	TRE0001L	250rxn \$750.00
Viral RNA Extraction System	VRE0001S	50rxn	\$165.00	VRE0001L	250rxn \$750.00
DNA free RNA System	DRS0001S	50rxn	\$195.00		
RNA Purification System	RPS0001S	50rxn	\$165.00		
microRNA Extraction System	MRE0001S	50rxn	\$219.00		
DNaseI w/ 10x Buffer	DRS0007	250units	\$69.00		



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