

SurePrep[™] Purification Kits for Isolating RNA, DNA and Proteins Clinical, Forensics, and Medical Research





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	BP2816-50	BP2805-50	BP2802-50	BP2801-25	BP2800-50	BP2806-50	BP2807-50	BP2809-50	BP2803-50	BP2804-50
	FFPE RNA	Cytoplasmic RNA	RNA, DNA, and Protein	Small RNA	TrueTotal RNA	RNA and Protein	Leukocyte RNA	RNA Cleanup and Concentration	Urine Exfoliated Cell	Urine Bacterial RNA
RNA	Х	Х	Х		Х	Х	Х	Х	Х	Х
microRNA	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х
DNA			Х							
Protein			Х			Х				

Laboratory Ap	oplications									
Agricultural			Х	Х	Х	Х		Х		
Environmental			Х	Х	Х	Х		Х		
Food Science			Х	Х	Х	Х		Х		
Forensic Pathology and Biology	Х		Х		Х	Х			Х	Х
Histology	Х									
Industrial and Public Health	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х
Infectious Disease Detection	Х	Х	Х	х	Х	Х	Х	Х	Х	Х
				1						

Industries										
Medical Research	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х
Academic Research	Х	×	Х	Х	Х	Х	Х	Х	Х	Х
Government Research	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х
Biotech Research	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х

SurePrep FFPE RNA ISOLATION KIT

APPLICATION

SurePrep FFPE RNA Isolation Kits rapidly isolate and purify total RNA from formaldehyde-fixed paraffinembedded (FFPE) tissue samples. Using formalin to fix tissues results in crosslinking of RNA and protein. Moreover, the process of embedding the tissue samples can also lead to fragmentation of the RNA over time. SurePrep FFPE RNA Isolation Kits provide conditions to partially reverse the formalin modifications, maximizing the yield of functional RNA. Higher yield of RNA contributes to greater accuracy of results in downstream applications. SurePrep FFPE RNA Isolation Kits are well suited for forensic pathology and biology, histology, medical research and academic research.

KEY FEATURES AND BENEFITS

- Rapid method for the isolation and purification of all sizes of RNA, ranging from large mRNA and ribosomal RNA down to microRNA (miRNA) and small interfering RNA (siRNA) less than 200 nt*
- An easy-to-follow, streamlined protocol of five simple steps allows for efficient RNA purification without the use of phenol and chloroform
- An innovative procedure to overcome the formalin modifications resulting in high yields of functional RNA
- Spin column format for fast and easy processing of samples.
- Optional protocol for on-column DNA removal
- High yields of purified total RNA for use in downstream applications such as qRT-PCR

DOWNSTREAM APPLICATIONS

- qRT-PCR
- Primer extension
- Gene expression array assays



Procedure for BP2816-50, SurePrep FFPE RNA Isolation Kit Four-hour procedure

SurePrep FFPE RNA ISOLATION KIT - SPECIFICATIONS

KIT SPECIFICATIONS:

Column Binding Capacity	50µg
Maximum Amount of Sample	5 paraffin slices, 20µm thick
	Unsectioned block: 25mg
Size of RNA Purified	Large, small and micro.
	Protocol does not assume fragmentation.
Lysis Method	Deparaffinization with xylene followed by
	enzymatic digestion
Final Elution Volume	50µL
No. of Buffers	5 buffers, 2 enzymes
Time to Complete Process	4 hours (3-hour proteinase K digestion)

No. of PrepsCat. No.Description50BP2816-50SurePrep FFPE RNA Isolation Purification Kit

Note: Longer time is required to sufficiently isolate all functionally intact total RNA species from a preserved sample in order to maximize yield.

* The RNA fragments purified depend on the age of the FFPE tissue as the degree of fragmentation of the RNA will increase over time.

SurePrep NUCLEAR OR CYTOPLASMIC RNA PURIFICATION KIT

APPLICATION:

SurePrep Nuclear or Cytoplasmic RNA Purification Kits rapidly isolate and purify both nuclear and cytoplasmic RNA from cultured animal cells and small tissue samples. SurePrep kits are well suited for academic and medical research.

KEY FEATURES AND BENEFITS

- Fast and easy processing using efficient spin-column
 procedure
- All nuclear and cytoplasmic RNA molecules can be isolated, from large mRNA to microRNA (miRNA) and small interfering RNA (siRNA)
- · Isolate fractionated RNA as opposed to total RNA
- No genomic DNA contamination in the cytoplasmic fraction
- Total RNA is isolated without the use of phenol and chloroform

DOWNSTREAM APPLICATIONS

- Real-time PCR
- Reverse transcription PCR
- Northern blotting
- RNase protection and primer extension
- Expression array analysis



SurePrep NUCLEAR OR CYTOPLASMIC RNA PURIFICATION KIT - SPECIFICATIONS

KIT SPECIFICATIONS:

Time to Complete Purification Process 45 minutes for 10 purifications

Average Yields from RNA Purification HeLa Cells, Cytoplasmic (1 x 10⁶ cells)......15µg HeLa Cells, Nuclear (1 x 10⁶ cells).......≤3.5µg

No. of Preps	Cat. No.	Description
50	BP2805-50	SurePrep Nuclear or Cytoplasmic RNA Purification Kit

KIT COMPONENTS:

Lysis Solution, 20mL; RNA Wash Solution, 22mL; Binding Solution, 25mL; RNA Elution Buffer, 6mL; Spin Columns, 50; Collection Tubes, 50; 1.7mL Elution Tubes, 50; Product Insert

RECOMMENDED STORAGE:

All solutions should be kept tightly sealed and stored at room temperature.

SurePrep RNA/DNA/PROTEIN PURIFICATION KIT

APPLICATION

SurePrep RNA/DNA/Protein Purification Kits rapidly isolate and purify total RNA, genomic DNA and total proteins sequentially from a single sample. Samples may consist of cultured animal cells, tissue samples, blood, bacteria, yeast, fungi or plants. These kits are useful for isolating macromolecules from difficult-to-obtain or small samples such as biopsy materials because the SurePrep process eliminates the need to fractionate the sample. SurePrep kits are well suited for academic and medical research.

KEY FEATURES AND BENEFITS

- Fast and easy processing using efficient spin-column procedure
- Total RNA, genomic DNA and proteins are all column-purified using the same column
- Sequential isolation of nucleic acids and proteins from a single lysate: no need to split the lysate
- Isolate high-quality RNA in all sizes, including large mRNA and rRNA to microRNA (miRNA)
- Analysis is more reliable since RNA, DNA and proteins are derived from the same sample
- Isolate high-quality genomic DNA with a molecular weight ≥ 30kb
- High yields of isolated proteins
- No phenol or chloroform extractions

DOWNSTREAM APPLICATIONS

RNA

- qRT-PCR
- Northern blotting
- RNase protection
- Primer extension
- Expression array analysis

GENOMIC DNA

- PCR
- Sequencing
- Southern blotting
- SNP analysis

PROTEIN

- SDS-PAGE analysis
- Western blots
- Mass Spectrometry



SurePrep RNA/DNA/PROTEIN PURIFICATION KIT - SPECIFICATIONS

KIT SPECIFICATIONS:

Column Binding Capacity	50μg for RNA 20μg for DNA 200μg for protein
Maximum Column Loading Volume	600µL
Size of RNA Purified	All sizes, including small RNA (<200 nt)
Size of DNA Purified	≥30kb
Maximum Amount of Starting Material	
Animal cells	
Animal tissues	
Blood	100µL
Bacteria	
Yeast	
Fungi	50mg
PlantTissues	50mg
Time to complete purification process	30 minutes for 10 purifications
Average Yields from RNA Purification	
HeLa Cells (1 x 10 ⁶ cells)	15µg RNA
HeLa Cells (1 x 10 ⁶ cells)	8µg DNA

KIT COMPONENTS:

Lysis Solution, 40mL; RNA Wash Solution, 20mL; RNA Elution Solution, 6mL; gDNA Wash Solution, 15mL; gDNA Elution Buffer, 15mL; Protein Column Regeneration Buffer, 30mL; Protein Column Activation and Wash Buffer, 60mL; Protein pH Binding Buffer, 4mL; Protein Elution Buffer, 8mL; Protein Neutralizer, 2mL; Protein Loading Dye, 2mL; Spin Columns, 50; Collection tubes, 200; Product Insert

RECOMMENDED STORAGE:

The Protein Loading Dye should be stored at -20°C upon arrival. All other solutions should be kept tightly sealed and stored at room temperature.

No. of Preps	Cat. No.	Description
50	BP2802-50	SurePrep RNA/ DNA/Protein Purification Kit

SurePrep SMALL RNA PURIFICATION KIT

APPLICATION:

SurePrep Small RNA Purification Kits are optimized for isolation and purification of small RNAs (< 200 nt) from larger RNAs in various biological samples such as animal cells and tissues, bacteria, and plants. These kits are well suited for academic and medical research.

KEY FEATURES AND BENEFITS

- Isolate all small RNA molecules (<200 nucleotides)
- Minimal contamination from large RNA molecules and genomic DNA
- Fast and easy processing using rapid spin-column format
- No phenol or chloroform extractions

DOWNSTREAM APPLICATIONS

- Quantitative RT-PCR
- Northern blotting
- Microarray assays



Small RNA isolated from 5 x 10° HeLa cells using the SurePrep Small RNA Purification Kit. Purified small RNA (lane 1) and a 100 nt RNA ladder (lane 2) were run on an 8% urea-PAGE gel.

SurePrep SMALL RNA PURIFICATION KIT - SPECIFICATIONS



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KIT SPECIFICATIONS:

Column Binding Capacity	.50µg
Maximum Column Loading Volume	.600µL
Size of RNA Purified	.<200 nt

Maximum Amount of Starting	Material
Animal Cells	3 x 10 ⁶ cells
AnimalTissues	25mg
Bacteria	5 x 10 ⁸ cells

Bacteria	. Э	Х	100	cei
PlantTissues	.5	0m	ng	

Time to Complete Purification Process 45 minutes for 10 purifications

KIT COMPONENTS:

Lysis Solution, 2 x 20mL; Wash Solution, 22mL; RNA Elution Buffer, 6mL; Large RNA Removal Columns, 25; Small RNA Enrichment Columns, 25; Collection Tubes, 50; 1.7mL Elution Tubes, 50; Product Insert

RECOMMENDED STORAGE:

Store at room temperature.

No. of Preps	Cat. No.	Description
25	BP2801-25	SurePrep Small RNA Purification Kit

SurePrep TrueTotal[™] RNA PURIFICATION KIT

APPLICATION:

SurePrep TrueTotal RNA Purification Kits rapidly isolate and purify total RNA from a variety of biological sources including blood, animal cells and tissues, bacteria, yeast, fungi, and plants. SurePrep kits are well suited for academic and medical research.



- Fast and easy processing using rapid spin-column format
- Isolate all sizes of RNA including large RNA and small RNA species
- No phenol or chloroform extractions
- Isolate and detect RNA from as little as a single animal cell

DOWNSTREAM APPLICATIONS

- Quantitative RT-PCR
- Northern blotting
- RNase protection and primer extension
- Expression array assays

Total RNA isolated from E. coli in log-phase growth using the TrueTotal RNA Purification Kit. One µg of total RNA isolated from E. coli (strain FB50, Fisher Cat. # BP4000-3) was loaded in lanes 2-4 on a 1.5% denaturing formaldehyde-agarose gel. Lane 1 contained a 1kb RNA standard (BP2811). Electrophoresis was performed at 100V for 70 min. and the gel stained with ethidium bromide.







SurePrep TrueTotal RNA PURIFICATION KIT - SPECIFICATIONS

KIT SPECIFICATIONS:

B1000	Ιυυμε
Bacteria	
Yeast	
Fungi	
PlantTissues	
	0

Time to Complete Purification Process 20 minutes for 10 purifications

Average Yields from RNA Purification

No. of Preps	Cat. No.	Description
50	BP2800-50	SurePrep TrueTotal RNA Purification Kit

KIT COMPONENTS:

Lysis Solution, 40mL; RNA Wash Solution, 22mL; RNA Elution Buffer, 6mL; Micro Spin Columns, 50; Collection Tubes, 50; 1.7mL Elution Tubes, 50; Product Insert

RECOMMENDED STORAGE:

Store at room temperature.

SurePrep RNA/PROTEIN PURIFICATION KIT

APPLICATION:

SurePrep RNA/Protein Purification Kits rapidly isolate and purify total RNA and proteins sequentially from a single sample of cultured animal cells, tissue samples, blood, bacteria, yeast, fungi or plants. SurePrep kits are well suited for academic and medical research.

KEY FEATURES AND BENEFITS

- · Fast and easy processing using rapid spin-column format
- All columns for RNA purification and protein purification
 provided
- Sequentially isolate nucleic acids and proteins from a single lysate: no need to split the lysate
- Isolate all sizes of RNA, from large mRNA and rRNA down to microRNA (miRNA)
- No phenol or chloroform extractions
- Isolate high quality total RNA
- High yields of isolated proteins

DOWNSTREAM APPLICATIONS

RNA

PROTEIN

- Reverse transcription PCR
- Northern blotting
- RNase protection
- Primer extension
- Expression array analysis



SurePrep RNA/PROTEIN PURIFICATION KIT - SPECIFICATIONS

SDS-PAGE analysis

Western blots

KIT SPECIFICATIONS:

Column Binding Capacity	50µg RNA 200µg for protein
Maximum Column Loading Volume	
Size of RNA Purified	All sizes, including small RNA (<200 nt)
Maximum Amount of Starting Material	
Animal Cells	
AnimalTissues	
Blood	100µL
Bacteria	1 x 10 ⁹ cells
Yeast	
Fungi	
PlantTissues	50mg
Time to complete purification process	30 minutes for 10 purifications
Average Yields from RNA Purification	
HeLa Cells (1 x 10 ⁶ cells)	15µg RNA
HeLa Cells (1 x 10 ⁶ cells)	150µg protein

KIT COMPONENTS:

Lysis Solution, 40mL; Nucleic Acid Wash Solution, 22mL; Nucleic Acid Elution Solution, 15mL; Protein Column Regeneration Buffer, 30mL; Protein Column Activation and Wash Buffer, 60mL; Protein pH Binding Buffer, 4mL; Protein Elution Buffer, 8mL; Enzyme Incubation Buffer, 6mL; Protein Neutralizer, 2mL; Protein Loading Dye, 2mL; Spin Columns, 50; Collection tubes, 150; Product Insert

RECOMMENDED STORAGE:

The Protein Loading Dye should be stored at -20°C upon arrival. All other solutions should be kept tightly sealed and stored at room temperature.

No. of Preps	Cat. No.	Description
50	BP2806-50	SurePrep RNA/Protein Purification Kit

SurePrep LEUKOCYTE RNA PURIFICATION KIT

APPLICATION:

SurePrep Leukocyte RNA Purification Kits rapidly isolate and purify total leukocyte (white blood cell) RNA from mammalian blood samples. The purified RNA can be used in various expression studies including those focusing on diseases. SurePrep kits are well suited to academic and medical research.

KEY FEATURES AND BENEFITS

- Fast and easy processing using rapid spin-column format
- Differential red blood cell lysis allows for removal of a majority of globin mRNAs
- Isolate total leukocyte RNA, including all small RNA species
- No phenol or chloroform extractions
- High-quality leukocyte RNA can be used in a number of downstream applications

DOWNSTREAM APPLICATIONS

- Reverse transcription PCR
- Northern blotting
- RNase protection and primer extension
- Expression array analysis



SurePrep LEUKOCYTE RNA PURIFICATION KIT - SPECIFICATIONS

KIT SPECIFICATIONS:

Minimum Blood Input......10µL

Time to Complete Purification Process 45 minutes for 10 purifications

Average Yields from RNA Purification 500µL human blood......1.5µg

KIT COMPONENTS:

RBC Lysis Solution, 180mL; Binding Solution, 25mL; Wash Solution, 22mL; RNA Elution Buffer, 6mL; Spin Columns, 50; Collection Tubes, 50; 1.7mL Elution Tubes, 50; Product Insert

RECOMMENDED STORAGE:

All solutions should be kept tightly sealed and stored at room temperature. The RBC Lysis Solution should be stored at 4°C upon arrival.

rte II D	Procedure for BP2807-50, SurePrep Leukocyte RNA Purificati Forty-five minutes for 10 purifications

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No. of Preps	Cat. No.	Description
50	BP2807-50	SurePrep Leukocyte RNA Purification Kit

SurePrep RNA CLEANUP AND CONCENTRATION KIT

APPLICATION:

SurePrep RNA Cleanup and Concentration Kits rapidly purify and concentrate up to 50µg of RNA isolated from other methods including phenol/guanidine-based protocols, and from various upstream enzymatic reactions such as DNase treatment, labeling, and in vitro transcription. SurePrep kits are well suited to academic and medical research.

KEY FEATURES AND BENEFITS

- Fast and easy processing using rapid spin-column format
- Suitable for all sizes of RNA, from large mRNA to micro-RNA (miRNA)
- Able to clean up RNA isolated using different methods, including RNA from phenol/chloroform extractions

DOWNSTREAM APPLICATIONS

- qRT-PCR
- Northern blotting
- RNase protection and primer extension
- Expression array analysis



SurePrep RNA CLEANUP AND CONCENTRATION KIT - SPECIFICATIONS



KIT SPECIFICATIONS:

Column Binding Capacity	50µg
Maximum Column Loading Volume	600µL
Size of RNA Purified	All sizes, including small RNA (<200 nt)
Maximum Amount of Starting Material	50µg of RNA
Minimum Elution Volume	20µL
Time to Complete Purification Process	20 minutes for 10 purifications
Average Recovery	≥ 90%

No. of Pre	eps Cat. No.	Description
50	BP2809-50	SurePrep RNA Cleanup and Concentration Kit

KIT COMPONENTS:

Binding Solution, 2 x 20mL; Wash Solution, 22mL; RNA Elution Buffer, 6mL; Spin Columns, 50; Collection Tubes, 50; 1.7mL Elution Tubes, 50; Product Insert

RECOMMENDED STORAGE:

All solutions should be kept tightly sealed and stored at room temperature.

SurePrep URINE EXFOLIATED CELL RNA PURIFICATION KIT

APPLICATION:

SurePrep Urine Exfoliated Cell Purification RNA Kits rapidly isolate and purify total RNA from exfoliated cells shed into the urine from the urinary tract. Purified RNA biomarkers from exfoliated cells can be used as non-invasive tools for a number of diagnostic and research applications such as monitoring bladder, kidney, or other urinary tract disorders. SurePrep kits are well suited for academic and medical research.

KEY FEATURES AND BENEFITS

- Fast and easy processing using efficient spin-column procedure
- Isolate and detect all sizes of total RNA, from large mRNA and ribosomal RNA down to microRNA (miRNA) using as little as 1mL sample of urine
- RNA can be isolated and detected from as few as 100 exfoliated cells
- Isolate high-quality total RNA from urine
- Total RNA is isolated without the use of phenol and chloroform

SurePrep URINE BACTERIAL RNA PURIFICATION KIT

APPLICATION:

SurePrep Urine Bacterial RNA Purification Kits isolate RNA from both Gram negative and Gram positive bacteria, including E. coli, Proteus spp., Klebsiella spp., Enterobacter spp., Serratia spp., Pseudomonas spp., Clostridial ssp., and Leptospirosis spp., as well as Chlamydia trachomatis and Neisseria gonorrhoeae from either human or animal urine samples. These kits preferentially purify RNA from cellular proteinaceous components, as well as glucose and salts found in urine. SurePrep kits are well suited to academic and medical research.

KEY FEATURES AND BENEFITS

- Fast and easy processing of multiple samples in 30 minutes using efficient spin-column procedure
- Isolate a diversity of high-quality total RNA, from large mRNA and ribosomal RNA down to microRNA and small interfering RNA
- Total RNA is isolated without the use of phenol and chloroform

SurePrep URINE EXFOLIATED CELL and SurePrep URINE BACTERIAL RNA PURIFICATION KITS - SPECIFICATIONS

KIT SPECIFICATIONS:

Column Binding Capacity	.50µg
Volume of Urine Processed	.1-50mL, Exfoliated Cell Kit (BP2803-50)
	10-50mL, Bacterial Kit (BP2804-50)
Maximum Input of Exfoliated Cells	.1 x 10 ⁶ cells Exfoliated Cell Kit (BP2803-50)
Maximum Column Loading Volume	600µL
Size of RNA Purified	All sizes, including small RNA (<200 nt)
Time to Complete 10 Purifications	.20 min. for Exfoliated Cell Kit (BP2803-50)
	30 min. for Bacterial Kit (BP2804-50)
Average Yields from RNA Purification*	.~1µg RNA per 1 x 10 ⁵ cells, Exfoliated Cell
	Kit (BP2803-50)
	~0.5µg RNA per 1 x 10 ⁷ cells, Bacteria
	Kit (BP2804-50)

*Yield varies due to cell density of sample.

No. of Preps	Cat. No.	Description
50	BP2803-50	SurePrep Urine Exfoliated Cell RNA Purification Kit

No. of Preps	Cat. No.	Description
50	BP2804-50	SurePrep Urine Bacterial RNA Purification Kit

DOWNSTREAM APPLICATIONS

- Reverse Transcription PCR .
- Northern blotting

Centrifuge to clear lysate (Optional)

SPIN

SPIN

- RNase protection and primer extension
- Expression array assays

KIT COMPONENTS:

Lysis Solution, 40mL; Wash Solution, 22mL; RNA Elution Solution, 6mL; Spin Columns, 50; Collection Tubes, 50; 1.7mL Elution Tubes, 50; Product Insert

RECOMMENDED STORAGE:

All solutions should be kept tightly sealed and stored at room temperature.





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