SurePrep™ Purification Kits for Isolating RNA, DNA and Proteins
Clinical, Forensics, and Medical Research
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SurePrep FFPE RNA ISOLATION KIT

APPLICATION
SurePrep FFPE RNA Isolation Kits rapidly isolate and purify total RNA from formaldehyde-fixed paraffin-embedded (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

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)

<table>
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<td>BP2816-50</td>
<td>SurePrep FFPE RNA Isolation Purification Kit</td>
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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:
- Column Binding Capacity: 50µg
- Size of RNA Purified: All sizes, including small RNA (<200 nt)
- Maximum Column Loading Volume: 600µL
- Maximum Amount of Starting Material
  - Animal Cells: 3 x 10^6 cells
  - Animal Tissues: 15mg
- Time to Complete Purification Process: 45 minutes for 10 purifications
- Average Yields from RNA Purification
  - HeLa Cells, Cytoplasmic (1 x 10^6 cells): 15µg
  - HeLa Cells, Nuclear (1 x 10^6 cells): ≤ 3.5µg

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

KIT SPECIFICATIONS:
- Column Binding Capacity: 
  - RNA: 50µg
  - DNA: 20µg
  - Protein: 200µg
- 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: 3 x 10^6 cells
  - Animal tissues: 25mg
  - Blood: 100µL
  - Bacteria: 1 x 10^6 cells
  - Yeast: 1 x 10^6 cells
  - Fungi: 50mg
  - Plant Tissues: 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 10^7 cells): 8µg DNA
  - HeLa Cells (1 x 10^8 cells): 150µg protein
  - HeLa Cells (1 x 10^9 cells): 150µg protein

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

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.

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

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

SurePrep SMALL RNA PURIFICATION KIT - SPECIFICATIONS

<table>
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<tr>
<th>KIT SPECIFICATIONS:</th>
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<tr>
<td>Column Binding Capacity</td>
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<tr>
<td>Maximum Column Loading Volume</td>
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<tr>
<td>Size of RNA Purified</td>
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<td>Animal Cells</td>
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<td>Animal Tissues</td>
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<tr>
<td>Bacteria</td>
<td>5 x 10⁸ cells</td>
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<td>Plant Tissues</td>
<td>50mg</td>
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<tr>
<td>Time to Complete Purification Process</td>
<td>45 minutes for 10 purifications</td>
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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.
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.

KEY FEATURES AND BENEFITS
- 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

SurePrep TrueTotal RNA PURIFICATION KIT - SPECIFICATIONS

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<th>KIT SPECIFICATIONS:</th>
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<tr>
<td>Column Binding Capacity</td>
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<tr>
<td>Maximum Column Loading Volume</td>
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<tr>
<td>Size of RNA Purified</td>
<td>All sizes, including small RNA (&lt;200 nt)</td>
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<td>Maximum Amount of Starting Material</td>
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<tr>
<td>Animal Cells</td>
<td>3 x 10^6 cells</td>
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<tr>
<td>Animal Tissues</td>
<td>25mg</td>
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<tr>
<td>Blood</td>
<td>100µL</td>
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<tr>
<td>Bacteria</td>
<td>1 x 10^6 cells</td>
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<tr>
<td>Yeast</td>
<td>1 x 10^6 cells</td>
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<tr>
<td>Fungi</td>
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<td>Plant Tissues</td>
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<tr>
<td>Time to Complete Purification Process</td>
<td>20 minutes for 10 purifications</td>
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<td>Average Yields from RNA Purification</td>
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<tr>
<td>HeLa cells (1 x 10^6 cells)</td>
<td>15µg</td>
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<tr>
<td>E. coli (1 x 10^6 cells)</td>
<td>50µg</td>
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<td>SurePrep TrueTotal RNA Purification Kit</td>
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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
• Reverse transcription PCR
• Northern blotting
• RNase protection
• Primer extension
• Expression array analysis

PROTEIN
• SDS-PAGE analysis
• Western blots

A. Purification of RNA
Lyse cells or tissue
SPIN
Bind RNA to Column
Wash RNA
SPIN
Elute RNA
SPIN
Wash
Elute
B. Purification of Proteins
Bind Proteins to Activated Column
Flowthrough (Proteins) Adjust pH
SPIN
Elute Proteins
SPIN
Wash

SurePrep RNA/PROTEIN PURIFICATION KIT - SPECIFICATIONS

KIT SPECIFICATIONS:
Column Binding Capacity..............................50µg RNA
200µg for protein
Maximum Column Loading Volume..................600µL
Size of RNA Purified..................................................All sizes, including small RNA (<200 nt)
Maximum Amount of Starting Material
Animal Cells.......................................................3 x 10^6 cells
Animal Tissues.....................................................25mg
Blood..........................................................100µL
Bacteria..........................................................1 x 10^9 cells
Yeast..........................................................1 x 10^8 cells
Fungi..........................................................50mg
Plant Tissues.....................................................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.
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 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.

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<td>Size of RNA Purified</td>
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<td>Maximum Amount of Starting Material</td>
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<td>Maximum Blood Input</td>
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<tr>
<td>Time to Complete Purification Process</td>
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<td>Average Yields from RNA Purification</td>
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<td>500µL human blood</td>
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**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

**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.

**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%

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<td>SurePrep RNA Cleanup and Concentration Kit</td>
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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 spp., 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)
1 x 10^7 cells Bacterial Kit (BP2804-50)
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 10^7 cells, Exfoliated Cell Kit (BP2803-50)
~0.5µg RNA per 1 x 10^6 cells, Bacterial 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
• 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.