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AviRex™ Total RNA

Total RNA Extraction kit

AviRex™ Total RNA utilizes a silica-based column to efficiently extract total RNA. The sample is lysed under highly denaturing conditions to preserve RNA integrity.

This kit enables the simultaneous processing of multiple tissue samples in under 30 minutes. The procedure thoroughly removes contaminants and enzyme inhibitors, resulting in fast, convenient, and reliable RNA isolation.

Applications:

RNA extraction from animal tissues, cell cultures and blood



AviRex™ Blood RNA

Blood RNA Extraction Kit

AviRex™ Blood RNA is designed for the silica spin-based isolation of total intracellular RNA from up to 200 µl of fresh or frozen whole blood treated with common anticoagulants (heparin, EDTA, or acid-citrate-dextrose). The procedure completely removes contaminants and enzyme inhibitors, resulting in fast, convenient, and reliable total RNA isolation.

Cell lysis, RNase inactivation, and DNA removal are achieved using a phenol-based solution. After separating the RNA-containing fraction and adding an RNA enhancer, the lysate is applied to a spin column. Cellular debris and contaminants like hemoglobin are effectively washed away, and high-quality RNA is eluted in DEPC-treated water.

Advantages:

Small sample size 200 µl

Fast and easy protocol

DNA depletion

Suitable yield 1-4 µg

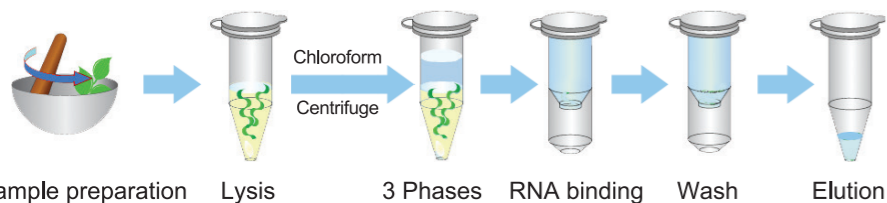


AviRex™ Plant RNA

Plant RNA Extraction Kit

AviRex™ Plant RNA utilizes a spin column-based method for the isolation of total RNA from a variety of plant samples. Samples should be homogenized in lysis buffer before starting the process. All contaminants, including polysaccharides and phenolic compounds, are effectively removed during purification.

Purified RNA is suitable for various downstream applications, such as RT-PCR, Northern blot analysis, differential display, and poly A+ RNA selection.



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DNA & RNA

EXTRACTION KITS

- AviDex™ Blood DNA
- AviDex™ Tissue DNA
- AviDex™ Bacteria DNA
- AviDex™ Plant DNA
- AviRex™ Total RNA
- AviRex™ Blood RNA
- AviRex™ Plant RNA

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AviDex™ Blood DNA

Blood DNA Extraction kit

AviDex™ Blood DNA is a silica-membrane-based purification system for extracting DNA from up to 200 µl of fresh or frozen human whole blood. Yields 4–10 µg of high-quality DNA, depending on the white blood cell count.

Applications:

Genomic DNA extraction from human and animal blood, serum, and plasma.



Advantages:

- Simple protocol
- No precipitation step required
- Less than 30 minutes per sample
- Purified DNA is fully compatible with downstream applications and all restriction enzymes tested



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AviDex™ Bacteria DNA

Bacteria DNA Extraction kit (G⁺ & G⁻)

AviDex™ Bacteria DNA is designed for rapid spin column preparation of genomic DNA from 2 x 10⁹ viable bacterial cells (between 0.5 and 1.0 ml of culture).

This kit is suitable for both Gram-negative and Gram-positive bacteria, including *Escherichia coli* and *Bacillus cereus*. Purified genomic DNA is of excellent quality and yield.



Advantages:

- Rapid and convenient spin column protocol
- High yield, high-quality DNA ideal for sensitive downstream applications, including sequencing, PCR, qPCR, and more



AviDex™ Tissue DNA

Tissue DNA Extraction kit

AviDex™ Tissue DNA utilizes proteinase K and chaotropic salt to lyse cells and degrade proteins, facilitating DNA binding to the glass fiber matrix of the genomic DNA spin column.

Applications:

Genomic DNA extraction from various animal tissues, including liver, kidney, and brain.



Advantages:

- No precipitation step required.
- Less than 45 minutes of preparation time per sample.
- Purified DNA is fully compatible with all restriction enzymes tested and seamlessly integrates with downstream applications.

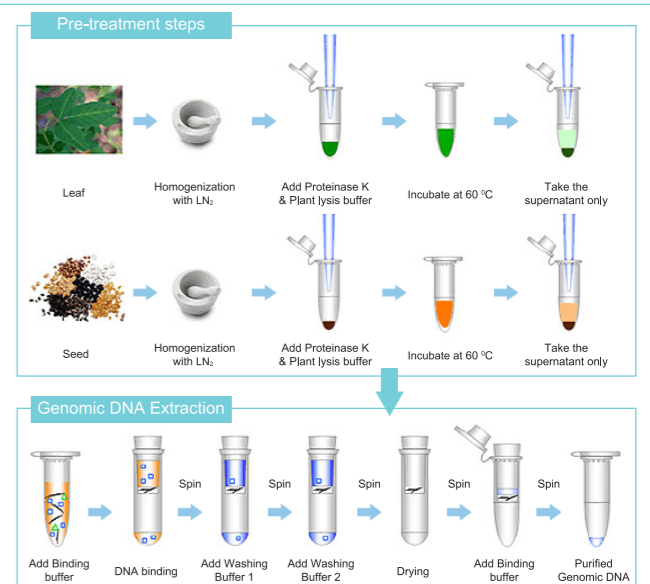


AviDex™ Plant DNA

Plant DNA Extraction kit

AviDex™ Plant DNA offers a simple, efficient column-based method for isolating genomic DNA from a wide variety of plant materials, eliminating the need for hazardous reagents such as phenol.

The kit includes all necessary components for high-performance extraction of high-quality DNA. Optimized lysis conditions and a specialized column matrix ensure improved recovery of genomic DNA from a diverse range of plant samples.



Advantages:

- Streamlined protocol for rapid DNA extraction.
- Ideal for various downstream applications.
- Maximizes DNA yield and purity for reliable results.

