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DNA & RNA

EXTRACTION KITS

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



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AviRex™ Total RNA

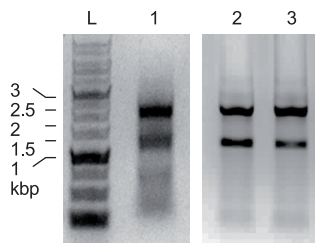
Total RNA Extraction kit

AviRex™ Total RNA uses reversible binding properties of a silica-based column. The sample is lysed first under highly denaturing phenolic buffer condition to protect RNA from degrading.

AviRex™ Total RNA allows simultaneous processing of multiple tissue samples in less than 30 min. The procedure completely removes contaminants and enzyme inhibitors making RNA isolation fast, convenient, and reliable.

Applications:

RNA extraction from animal tissues, cell culture and blood.



L: 1 kbp DNA Ladder
1: 10 µl RNA from Blood
2: 5 µl RNA from J774 cells
3: 5 µl RNA from HeLa cells

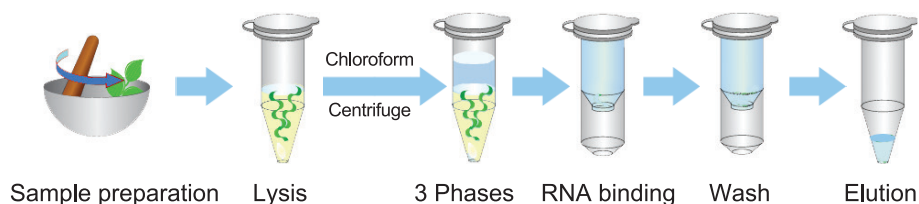


AviRex™ Plant RNA

Plant RNA Extraction Kit

AviRex™ Plant RNA provides a convenient 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 the contaminants including polysaccharides and phenolic compounds are effectively removed.

Purified RNA can be used for most downstream applications such as RT-PCR, Northern blot analysis, differential display, and poly A+ RNA selection.





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AviRex™ Blood RNA

Blood RNA Extraction Kit

AviRex™ Blood RNA is designed for a silica spin-based isolation of total intracellular RNA from up to 200 μ l of fresh, or frozen whole blood treated with any common anticoagulant such as heparin, EDTA or acid-citrate-dextrose. The procedure completely removes contaminants and enzyme inhibitors making total RNA isolation fast, convenient and reliable. Cell lysis, RNase inactivation and DNA removal are carried out by phenol-base solution. After separation of RNA containing section and addition of RNA enhancer, the lysate will be applied to a spin column. Cellular debris and other contaminants such as hemoglobin are effectively washed away and high-quality RNA is finally eluted in DEPC-treated water.

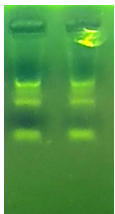
Advantages:

Low sample size 200 μ l

Fast and easy protocol

DNA depletion

Suitable yield 1-4 μ g



10 μ l of extracted RNA from blood on a 1.5% agarose gel stained with AviStain™





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AviDex™ Blood DNA

Blood DNA Extraction kit

A silica-membrane-based DNA purification for up to 200 µl fresh or frozen human whole blood. Expected yields of 4–10µg depending on the white blood cell count of the sample. High-quality DNA without any organic extraction or alcohol precipitation.

Applications:

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



Advantages:

Easy protocol.

No precipitation step.

Preparation time for a single sample is less than 30 minutes.

Purified DNA is fully digestible with all restriction enzymes tested, and is completely compatible with downstream applications.

AviDex™ Tissue DNA

Tissue DNA Extraction kit

AviDex™ Tissue DNA employs proteinase K and chaotropic salt to lyse cells and degrade protein, allowing DNA to be easily bound by the glass fiber matrix of the genomic DNA spin column.

Applications:

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



Advantages:

No precipitation step.

Preparation time for a single sample is less than 45 minutes.

Purified DNA is fully digestible with all restriction enzymes tested and is completely compatible with downstream applications.



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AviDex™ Bacteria DNA

Bacteria DNA Extraction kit (G⁺ & G⁻)

AviDex™ Bacteria DNA is designed for the rapid spin column preparation of genomic DNA from 2×10^9 viable bacterial cells (between 0.5 and 1.0 ml of culture).

This kit can be used for both Gram-negative and Gram-positive bacteria including Escherichia coli and Bacillus cereus. Purified genomic DNA is of an excellent quality and yield.



Advantages:

Rapid and convenient spin column protocol.

High yield, high quality DNA for sensitive downstream applications including sequencing, PCR, qPCR and more.

AviDex™ Plant DNA

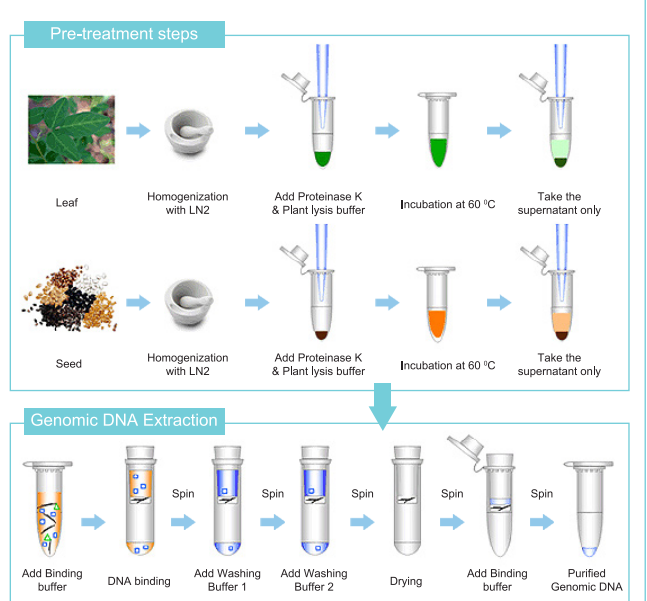
Plant DNA Extraction kit

AviDex™ Plant DNA provides a simple, efficient column based method for the isolation of genomic DNA from a wide variety of plant materials, without the need for hazardous reagents such as phenol.

Advantages:

Fast and Convenient: Kit includes all necessary components High performance extraction of high quality DNA, ideal for use in all downstream applications.

Efficient: Optimized lysis conditions and column matrix for improved recovery of genomic DNA from a wide range of plant samples.





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