New GeneiPure™ DNA Purification Kits

Description: GeneiPure™ DNA Purification Kits are designed for isolation of pure, sequencing grade DNA using silica membrane technology. Purification follows a simple bind-wash-elute procedure yielding ready-to-use high quality DNA.

Features/Highlights:

- No phenol-chloroform extractions
- No time consuming alcohol precipitation
- No silica solution/slurry
- Ready-to-use high quality DNA
- Easy-to-follow protocols
- Rapid and reproducible results
- DNA suitable for regular downstream applications
- High salt binding of DNA and elution at low salt conditions

Principle:

GeneiPure™ DNA purification kits are based on selective adsorption of DNA in presence of chaotropic salt and desorption in the presence of low ionic strength buffer or water. DNA molecule is surrounded by water molecules (shell) that makes it soluble in aqueous solution. In the presence of chaotropic salts, water molecules are removed from the nucleic acid backbone and it can readily bind to the silica membrane of spin column. Proteins, salts, metabolites and other soluble macromolecules do not have affinity towards silica membrane and are readily removed during the washing step. DNA is brought back to the soluble form and eluted when a low-salt, slightly alkaline elution buffer or water is applied onto the column.

Intact DNA can be purified from various sources, devoid of contaminants as final eluate.

Advantages:

- Fast
- Economical
- Reproducible
- Avoids use of hazardous organic solvents and silica solutions/slurries whose carry over causes interference in downstream applications
- Optimized buffers to purify DNA from diverse samples.

Quick Protocol