

Description

The GF-1 Tissue Sample DNA Extraction Kit is designed for rapid and efficient purification of genomic DNA from various tissue samples such as kidney, heart, lungs, brain, muscles, liver, spleen, etc. The purification is based on the usage of denaturing agents to provide lysis of tissue cells, denaturation of proteins and subsequently release of genomic DNA. Special buffers provided in the kit are optimized to enhance the binding of DNA onto a specially-treated glass filter membrane for efficient recovery of highly pure genomic DNA.

Features

- Yields up to 20µg of DNA
- Mini-column spin technology
- No organic-based extraction required
- Highly pure genomic DNA ready to use for routine molecular biology applications such as restriction enzyme digestion, PCR, - Southern blotting, DNA fingerprinting, etc.

Note

The GF-1 Tissue Sample DNA Extraction Kit is optimized to isolate up to 20µg of DNA from up to 5 x 10⁶ cultured animal cells or 10 - 20mg of tissue samples. Tissue samples vary in the number of cells depending on age, type of tissue and origin. When processing samples, do not use more than the recommended starting material as excessive number of cells will overload the column. This would result in reduced yield and purity. We recommend weighing the tissue samples before starting to ensure optimum yield and purity is obtained. Liver and spleen are very high in protein and RNA content. Thus, when isolating genomic DNA from these sources, use only up to 15mg of the sample.

Chemical Hazard

Buffer TB contains guanidine salts which can be harmful when in contact with skin or swallowed. Always wear gloves and practice standard safety precautions. Do NOT disinfect guanidine or extraction waste in solutions containing bleach or any other form of acid. To clean any items contaminated with the reagent, simply soak in detergent and water to remove all traces of guanidine before cleaning with bleach or acidic solutions.

Additional Materials to be Supplied by user

- Absolute Ethanol (>95%)
- RNase A (DNase-free) (20mg/ml)
- Phosphate Buffered Saline (PBS)

Shipping and storage

Store solutions at 20°C - 30°C.

Store Proteinase K at -20°C.

Kit components are guaranteed to be stable for 12 months from the date of manufacture

Buffer TB may exhibit salt precipitation due to cold temperature. If this occurs, simply warm the bottle at 55°C - 65 C with occasional mixing until precipitate is completely dissolved.

Order Information

Prod. No.	Description	Quantity
S92905	Tissue Sample DNA Extr. Kit	5 preparations
S92950	Tissue Sample DNA Extr. Kit	50 preparations
S929100	Tissue Sample DNA Extr. Kit	100 preparations