

DNA & RNA Purification

Plasmid DNA Purification

US \$

GenElute™ Plasmid Miniprep Kits

The GenElute Plasmid Purification Kits offer simple, rapid, and cost-effective methods for isolating plasmid DNA from *E. coli* cultures. These kits combine silica-based membrane technology and the convenience of a spin column format. These kits also recover up to 20 µg of high copy plasmid DNA per ml of overnight culture.

Bacterial cells are harvested via centrifugation, subjected to a modified alkaline-SDS lysis procedure and the DNA adsorbed onto silica in the presence of high salts. Contaminants are then removed by a simple wash step.

Finally, the bound DNA is eluted in water or Tris-EDTA buffer. The recovered plasmid DNA is predominately in its supercoiled form. There is no visual evidence of genomic DNA or RNA contamination. The DNA is ready for immediate use in applications such as restriction enzyme digestion, cloning, PCR, transformation, transcription, conventional and automated sequencing.

Features and Benefits

- 40% more preps per kit than the leading supplier
- Purify up to 20 µg of plasmid DNA per ml of culture
- Purified plasmid DNA in less than 30 minutes for up to 24 preps
- Faster than gravity flow anion exchange columns
- No detectable genomic DNA or RNA contamination
- No phenol/chloroform extraction or alcohol precipitation required
- Contains additional wash buffer for use with EndA+ *E. coli* bacterial strains (e.g., HB101 JM101, BL21)

R: 10-21/22-36/37/38 S: 16-26-36/37

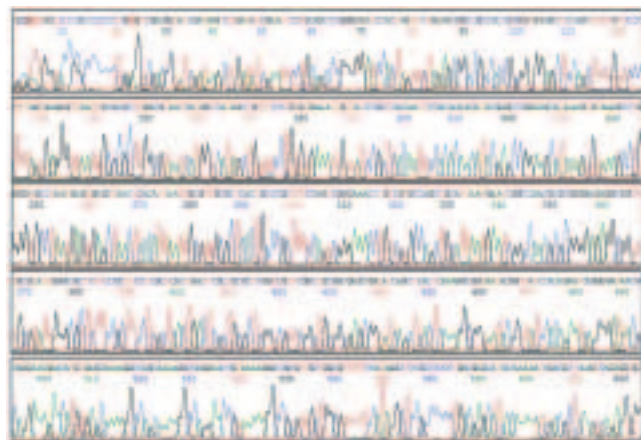
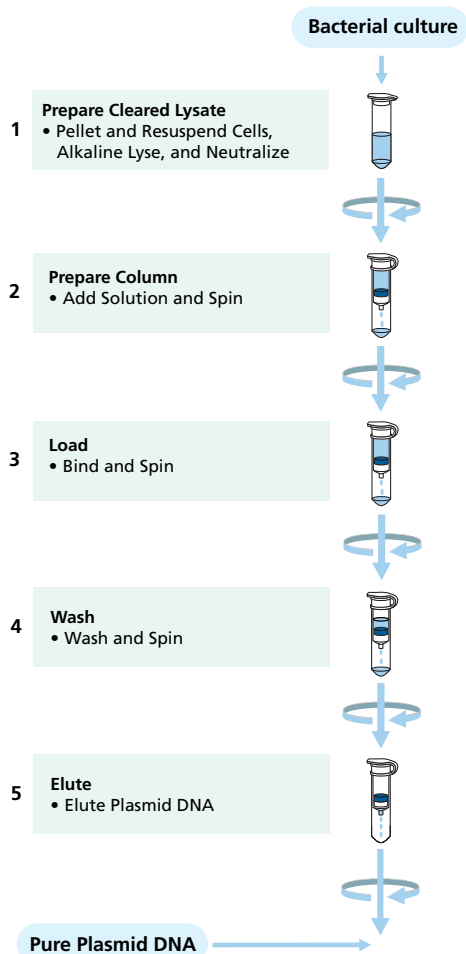


Figure 1. Electropherogram revealing >600 bases of sequence from pUC-TMV using GenElute Plasmid DNA Purification Miniprep Kit. Cycle Sequencing was performed using 500 ng of template, a T7 sequencing primer, and ABI BigDye™ terminator chemistry. Sequencing reactions were resolved on an ABI Prism 377 XL instrument with a 48 cm gel cassette containing 4.5% AutoPAGE Plus acrylamide at 2.4 kV, 48 °C for 7 hours.

PLN-10 RT	GenElute™ Plasmid Miniprep Kit sufficient for 10 purifications	1 kit	16.40
PLN-70 RT	GenElute™ Plasmid Miniprep Kit sufficient for 70 purifications	1 kit	59.55
PLN-350 RT	GenElute™ Plasmid Miniprep Kit sufficient for 350 purifications	1 kit	265.10

Genomic DNA Purification

Tissue

Extract-N-Amp™ Tissue PCR Kits

NEW The Extract-N-Amp™ Tissue PCR Kits provide all the reagents necessary to rapidly extract DNA from a wide variety of cells and tissues and amplify targets of interest by PCR. A novel extraction method eliminates the need for long enzymatic digestions or homogenization. The kit also includes a specially formulated hot start PCR reaction mix for amplification directly from the extract. The PCR ready mix comes in two formulations: Extract-N-Amp PCR ReadyMix™ and REExtract-N-Amp™ PCR ReadyMix. The REExtract-N-Amp PCR ReadyMix contains an inert dye that acts as a tracking dye and allows for convenient lading of PCR reactions onto agarose gels for analysis.

The kit comes with validated protocols to extract and amplify genomic DNA from mouse-tails, hair, animal tissue, saliva, and buccal swabs. In a typical procedure, genomic DNA is extracted from a sample that has been incubated in the tissue preparation solution and extraction solution for 10 minutes at room temperature. The sample is heated to 95 °C for 3 minutes and then mixed with a third solution to neutralize inhibitory substances prior to PCR. A portion of the DNA extract is then added to a PCR reaction containing primers and either the REExtract-N-Amp or Extract-N-Amp PCR ReadyMix, included in the kit.

Features and Benefits

- Fast: Rapid extraction of genomic DNA for PCR in 15 minutes
- Convenient: No long enzymatic digestions
- Practical: Perfect for quick genomic DNA isolation for genotyping

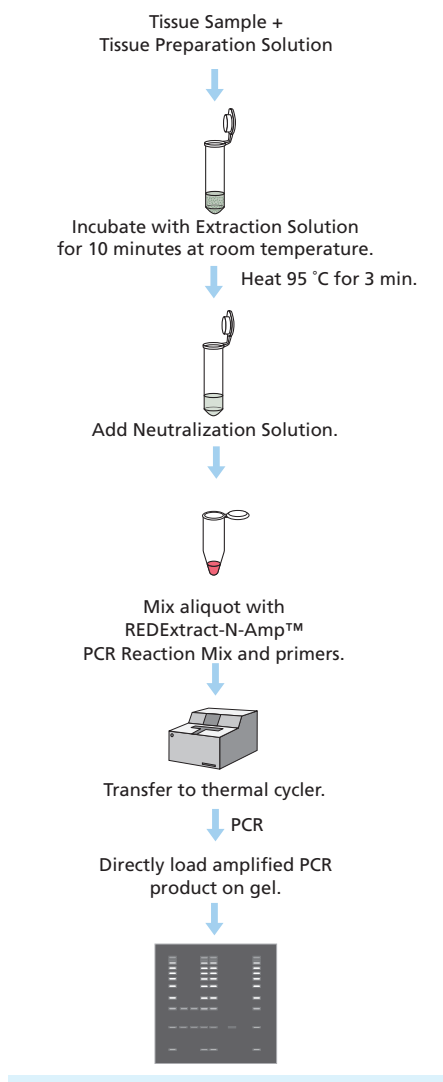
DNA & RNA Purification

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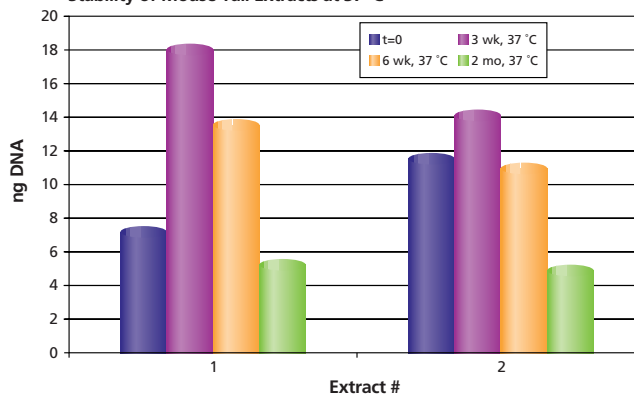
Genomic DNA Purification: Tissue

- Flexible: Protocols available for mouse-tails, hair, animal tissue, saliva, and buccal swabs
 - Specific: Hot Start antibody for highly specific PCR amplification of genomic DNA
- Purchase of these products is accompanied by a limited license to use it in the Polymerase Chain Reaction (PCR) process in conjunction with a thermal cycler whose use in the automated performance of the PCR process is covered by the up-front license fee, either by payment to Applied Biosystems or as purchased, i.e., an authorized thermal cycler.
- JumpStart Taq antibody is licensed under U.S. Patent No. 5,338,671 and 5,587,287 and corresponding patents in other countries.
R: 36/37/38-42/43 S: 26-36

Overview of Extract-N-Amp™ Tissue PCR kit procedure.



Stability of Mouse Tail Extracts at 37 °C



Stability of DNA in mouse-tail extracts.

Figure 1. Mouse-tail samples were extracted according to the procedure in the Technical Bulletin for the Extract-N-Amp™ Tissue PCR Kit. The remaining mouse-tail tissue was removed from the samples for storage. 4 µl aliquots were analyzed immediately by quantitative PCR with SYBR® Green detection on an ABI Prism 7700. DNA standards for quantitative PCR were purified DNA prepared from mouse tails using the GenElute Mammalian Genomic DNA kit (Product Code G1N70) and stored as single use aliquots at -20 °C. The mouse-tail extracts were stored at 37 °C (accelerated storage). Quantitative PCR was repeated after 3 weeks, 5 weeks and 2 months from extracts at 37 °C. Results for storage at 37 °C are shown. These results suggest that extracts will be stable for at least 6 months at the recommended storage temperature of 4 °C.

XNATS REExtract-N-Amp™ Tissue PCR Kit 1 kit 20.40
 [-20-0°C] sufficient for 10 extractions, sufficient for 10 amplifications
 WET ICE

XNAT REExtract-N-Amp™ Tissue PCR Kit 1 kit 163.20
 [-20-0°C] sufficient for 100 extractions, sufficient for 100 amplifications
 WET ICE

XNATR REExtract-N-Amp™ Tissue PCR Kit 1 kit 1510.00
 [-20-0°C] sufficient for 1000 extractions, sufficient for 1000 amplifications
 WET ICE

XNAT2 Extract-N-Amp™ Tissue PCR Kit 1 kit 158.10
 [-20-0°C] sufficient for 100 extractions, sufficient for 100 amplifications
 WET ICE

XNAT2R Extract-N-Amp™ Tissue PCR Kit 1 kit 1460.00
 [-20-0°C] sufficient for 1000 extractions, sufficient for 1000 amplifications
 WET ICE

REExtract-N-Amp™ PCR ReadyMix™

R 4775 12 ml sufficient for 1000 amplifications 12 mL 1160.00
 [-20-0°C] Purchase of these products is accompanied by a limited license to use it in the Polymerase Chain Reaction (PCR) process in conjunction with a thermal cycler whose use in the automated performance of the PCR process is covered by the up-front license fee, either by payment to Applied Biosystems or as purchased, i.e., an authorized thermal cycler.
 WET ICE

NEW

JumpStart Taq antibody is licensed under U.S. Patent No. 5,338,671 and 5,587,287 and corresponding patents in other countries.

Extract-N-Amp™ PCR ReadyMix™

E 3004 12 ml sufficient for 1000 amplifications 12 mL 1170.00
 [-20-0°C] Purchase of these products is accompanied by a limited license to use it in the Polymerase Chain Reaction (PCR) process in conjunction with a thermal cycler whose use in the automated performance of the PCR process is covered by the up-front license fee, either by payment to Applied Biosystems or as purchased, i.e., an authorized thermal cycler.
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