





Gel extraction kit Ultrafree® DA

DNA Extraction from Agarose Gels, Range: 100 -10.000 bp DNA

AE86.1

Also suitable for isolation of DNA from polyacrylamide gels. Use same protocol.

Introduction

This centrifugal filter device is designed to extract 100 to 10,000 bp DNA from agarose gel slices in one 10 minute spin. DNA prepared with this device requires no further purification for use in cloning and radioisotopic or fluorescent DNA sequencing. Due to the high resolving power of agarose gel electrophoresis, the small and large non-specific amplification products that frequently interfere with cloning and sequencing after PCR* are completely removed from your product.

Contents of Package

Quantity/pk (preassembled)

Gel Nebulizer, Ultrafree-MC (0.45 µm Durapore) 50 and Microcentrifuge filtrate vials 50

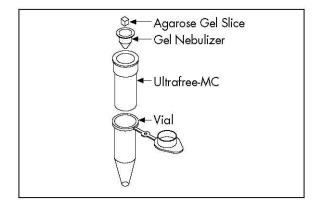
Additional Materials Required

- TAE electrophoresis buffer (40 mM Tris-acetate, pH 8.0, 0.1 mM Na²EDTA).
 Note: In principle, the Ultrafree-DA gel extraction kit works with all standard buffer systems like TBE or TAE buffers. However, since gel extractions are generally performed prior to enzymatic processes done with the eluted DNA, we recommend modified TAE (Roth TAE light, Art. No. 0122.1) rather than TBE for the following reasons:
 (1) TBE buffer strongly inhibits DNA sequencing reactions while modified TAE buffer does not. (2) Modified TAE has reduced contents of Na₂-EDTA while regular TAE has 1.0 mM Na₂-EDTA. This EDTA level will not interfere with the magnesium concentration in sequencing reactions and other downstream enzymatic treatments, many that are dependent on magnesium.
- Agarose for genetic engeneering (e.g. Carl Roth Agarose GTQ, Art. No. 6352.2)
 Note: Low melting point agarose is not compatible with this protocol.

^{*} PCR (polymerase chain reaction) is covered by U.S. and other equivalent patents issued to Hoffman-La Roche, Inc.

Procedure to Use Ultrafree-DA

- Electrophorese 30 µl of PCR product or other DNA through a < 1.25% ordinary agarose gel, prepared in TAE buffer with ethidium bromide (0.5 µg/mL).
- Locate band of interest with the long-wavelength ultraviolet lamp or transilluminator. With a razor blade. cut out the slice of agarose (<100 µl at 100 mg) containing the band of interest. The Ultrafree-DA is preassembled as follows:
- Place gel slice into Gel Nebulizer and seal device with the cap attached to vial.



- 4. Spin at 5,000 x g for 10 minutes. Centrifugation forces the agarose through the Gel Nebulizer, converting it to a fine slurry that is captured by Ultrafree-MC. Extruded DNA in electrophoresis buffer passes through the microporous membrane in Ultrafree-MC and collects in the filtrate vial.
- Discard the Ultrafree-MC and Gel Nebulizer. You can sequence or clone the DNA in the filtrate without further purification.

Technical Assistance

For more information, contact Carl Roth Gmbh + Co. KG (Karlsruhe, Germany, 0049 - 721 5606-0) or the Millipore office nearest you.

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50 units

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