Agarose Gel DNA Extraction Kit (Cat. GD-01D)

Product Information:

Kit contains: DNA extraction solution-A (40ml), DNA extraction solution-B (40ml), Spin column (50)
Catalog Number: GD-01D
Sizes: 100 extractions
Storage : 2- 8°C

Description:

- The **Agarose gel DNA extraction solution** is designed for rapid extraction of DNA fragments (≧50 bp) from TAE or TBE agarose gels. This solution will not precipitate the DNA/gDNA less than 50bp sizes, primer dimers, dNTPs, fluorescence dyes and free oligonucleotides. The concentrated DNA is suitable for most downstream applications: ligation, cloning, sequencing, microarray, southern blotting, SNP analysis.
- **An environmentally friendly solution** – not hazardous and geno-toxic reagents involved.

Procedure:

1. Cut out the interesting DNA band (≧50 bp) in an agarose gel with a clean razor blade and transfer into a new 1.5ml tube.
2. Add 400ul of DNA extraction solution-A into the tube and incubate at 60°C for 10 minutes or until the agarose gel is melt.
3. Add 400ul of DNA extraction solution-B into the tube, mix well by vortexing.
4. Centrifuge at maximal speed (13,000 x g) for 10 minutes at 4°C.
5. (Optional): Transfer all solution from step 3 into a spin column and centrifuge at maximal speed (13,000 x g) for 5 minutes at 4°C if the DNA pellets are not visible from step 4.
6. Carefully aspirate liquids and simply rinse tubes with 500ul 80% ethanol for 2 times without disturbing the DNA pellets. Centrifuge at maximal speed (13,000 x g) for 10 minutes at 4°C if the DNA pellets are resuspended.
7. Air-dry the DNA pellets for 5-10 minutes.
8. Dissolve the DNA pellets in 20 µl of **nuclease-free** TE buffer or distilled water if the DNA pellet is visible. Otherwise, use 10ul of **nuclease-free** TE buffer or distilled water.
9. Centrifuge at maximal speed (13,000 x g) for 5 minutes at 4°C prior to measure DNA concentration using a spectrometer and store the DNA solution at 4°C or -20°C.

Precautions and Disclaimer:
This product and procedure described are intended for R&D use only. Purchase of this product does not convey a license to perform any patented process.

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