POUYA GENE AZMA Ltd.

PGA DNA Gel extraction kit

Catalog number:

Quantity: 50/25 Prep

PGA Gel purification kit is designed to isolate up to 50 ng/µl of high-quality DNA from electrophoresis gel in 30 minutes or less. Gel purification kit is simplified with Mini Column technology. Purified DNA is immediately ready for a wide variety of downstream applications such as routine screening, restriction enzyme digestion, and DNA sequencing.

Features and Benefits

Spin column
Rapid purification
Stable and consistent result
Instant use: No need of additional materials
High binding capacity and high purity
No use of organic solvents
Ready for use in fluorescent sequencing, cloning, hybridization, Electroporation and other enzymatic manipulation

for more information

Component list

	50 Preps	25preps
column	50	25
Collection tube	50	25
GB Buffer	30 ml	15 ml
NW buffer	35 ml	18 ml
EB buffer	5 ml	3 ml

Buffer Preparation:

Add 20 ml ethanol to NW Buffer prior to use

Procedure:

1. Excise the DNA fragment to be purified from the agarose gel using a razor blade or scalpel. Transfer it to a 1.5 ml centrifuge tube and weigh the gel slice. (Using UV light to visualize the slice is common, but exposure time should be kept as short as possible to minimize damage to the DNA. Use long-wave UV, when possible, as shorter wavelengths induce greater damage. Also, trim off excess agarose from the perimeter of the band to minimize the amount of dissolving buffer needed, and to reduce the time necessary to extract the DNA.)
2. Add 3 volumes of GB buffer to the tube with the gel slice (e.g., 300 µl buffer per 100 mg gel). (If the volume of the dissolved sample exceeds 800 µl, the loading of the sample onto the column should be performed in multiple rounds to not exceed the volume constraints of the spin column.)
3. Incubate the sample on 50°C, inverting periodically until the gel slice is completely dissolved (generally 5–10 minutes).
4. Insert the column into collection tube and load sample onto the column. Spin for 1 minute at 130000 rpm, then discard flow-through.
5. Re-insert column into collection tube. Add 700 µl NW Buffer and spin for 1 minute. Discard the flow-through.
6. Centrifuge for additional 1 minute and discard the flow-through.
7. Transfer column to a clean 1.5 ml microfuge tube.
8. Add 30 µl of EB Buffer to the center of the matrix. Wait for 1-2 minute, and spin for 1 minute to elute DNA.

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