

## Enzymax, LLC

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### Product Information

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**Product Name:** EZ DNA Gel Extraction kit  
**Catalog #:** EZGE301  
**Size:** 50 preps

#### Feature:

- Easy and fast 20 min procedure
- High yield DNA recovery
- Extract and purify DNA fragments (70 bp-12 Kb) from standard or low-melting agarose gels in TAE or TBE buffer.
- It can also be used for easy and rapid clean-up of DNA from mini prep., PCR amplification (from 80bp-12Kb), and enzymatic reactions (e.g., labeling, restriction, and dephosphorylation etc.)
- Purified DNA can be used directly in applications such as restriction digestion, ligation, transformation, PCR amplification, labeling, hybridization, and sequencing.

#### Components of the kit:

Gel Extracion Buffer:	30 ml
2x wash buffer:	15 ml
Spin Columns:	50

#### Protocol:

1. Mix 3 volumes of the **Gel Extraction Buffer** and 1 volume of isopropanol (adding 1 volume of isopropanol is optional for DNA size between 500 bp-4 Kb) with 1 volume of DNA solution. Do not exceed 500 mg gel slice per column.
2. Incubate at 65°C for about 10 min till the gel slice has completely dissolved. Increase the temperature to 85°C or incubation time if the gel concentration is more than 2%.
3. Load the sample mixture on the **Spin Column** and spin in a microcentrifuge for 1 minute at full speed (about 10,000rpm). Do not load more than 500 µl of sample on the column at one time. Discard the flow through and reload more sample mixture if needed.
4. Wash the column by adding 500 µl of **1x Wash Buffer (dilute to 1x with 100% Ethanol)** and centrifuge for 1 minute.
5. Discard flow-through and place the column back in the same tube and spin for 1 minute. This step is to remove residual ethanol from Wash Buffer.
6. Place the column in a clean 1.5 ml microcentrifuge tube.
7. Add 30 µl or more **distilled water** or **TE** (10 mM Tris-HCl, 1 mM EDTA, pH8.0) (preheated at 65°C for better yield) to the **center** of the column and leave at room temperature for 5 min. Spin the column for 1 minute to elute the DNA from the column.

#### Caution:

Gel Extraction Buffer contains chaotropic salt. Please use proper safety precautions and always wear gloves when handling the reagent. Avoid contact with skin, eyes or clothing. In case of accidental spill or contact, wash thoroughly with water, seek medical advice if necessary.