# Enzymax, LLC

## Product Information

**Product Name:** DNA Gel Extraction Micro Kit
**Catalog No.:** 604
**Size:** 50 preps

| Related products: | Catalog No. |
|---|---|
| DNA mini spin columns (30-50µl vol.) | EZC101 |
| DNA Tini spin columns (5-20µl vol.) | EZC106 |
| EZ DNA Clean-up and concentration kit (50) | 602 |

### Features:

- Easy and rapid with 20 min procedure using spin column
- High DNA recovery
-Extract and purify DNA fragments (70 bp-12 Kb) from standard or low-melting agarose gel in TAE or TBE buffer

### Kit Contents:

| Components | *DNA Gel extraction micro kit 50 Preps (*cat# 604) |
|---|---|
| Gel Extraction Buffer | 50 ml |
| 5xWash Buffer* | 20 ml |
| Elution Buffer | 5ml |
| Tini spin column with collection tube** | 50 |

***Add 100% ethanol before use:** add 80 ml 100% ethanol to20 ml 5xWash buffer.
**Tini Spin columns can be order separately for leftover solution (cat#EZC106, $39 for 50 columns)

### Caution:

Gel Extracion 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.

### Protocols:

This kit is designed for small amount DNA fragment recovery and concentration from agarose gel using Tini spin columns (Cat#EZC106). The elution volume for Tini spin column can be as low as 5µl.

1. Excise the DNA fragment from the gel with a clean scalpel, weight and transfer it to a clean tube.
2. Add 200µl **Gel Extracion Buffer** into each 50mg of gel slice.
3. Incubate at 60°C for about 10 min till the gel slice is completely dissolved. Increase the temperature to 85°C, incubation time, or add more extraction buffer if the gel concentration is more than 2%. **Note:** If the color of the mixture turns a blue or purple color, adjust pH by adding a small volume of 3M Sodium acetate (pH 5.0).
4. Load the sample mixture onto the **Tini Spin Column** (or Mini spin Column) and spin in a microcentrifuge for 1 min at full speed (about 10,000 rpm). Do not load more than 350 µl of sample on the Tini spin column (or 750 µl on Mini spin column) at one time. Discard the flow through and load more sample mixture if needed.
5. Wash the column by adding 300 µl of **Wash Buffer** (**ethanol added**) and centrifuge for 1 min.
6. 5. Wash once by adding 300 µl of 80% ethanol and centrifuge for 1 min (Option).
7. 6. Discard flow through and place the column back in the same tube. Centrifuge the tube with lid open for 2 min. **Note:** this step is important since the residual ethanol may affect downstream applications)
8. Place the column in a clean 1.5 ml micro-centrifuge tube.
9. Add 5-20 µl or more **distilled water** or **elution buffer** (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 min to elute DNA from the column.

**FOR RESEARCH USE ONLY**
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