Data sheet

Clean-Easy Agarose Purification Kit

Cat. No: AN0070 (50 reactions)
Cat. No: AN0071(100 reactions)

Description

Clean-Easy Agarose Purification Kit provides a rapid and efficient method to extract DNA from agarose gels. It is based on the solubilisation and binding of DNA to a silica membrane in presence of chaotropic salts. Clean-Easy minispin columns contains an exclusive membrane that allows to bind an unique DNA fragment, previously excised from agarose gel.

Features

- **Simple** and **Just a few minutes** procedure.
- **Wide spectrum of size** fragments could be purified, (suitable since 100 bp up)
- **High Percentage of Recovery**, greater than 80% on 0.7-1% agarose. Recovery is lower in more concentrated agarose gels (50-60% on 2% agarose).
- DNA purified **Ready to use** in all molecular biology procedures.
- Suitable for any kind of agarose and gel buffer systems.

Applications

- Purification of DNA fragments (*obtained by PCR or digestion with restriction enzymes*) from agarose gels.
- The purified DNA can be used in all molecular biology applications.

Kit Components

Item	AN0070	AN0071
Clean-Easy minispin columns	50	100
Collection tubes (2 mL)	50	100
QG Buffer	60 ml	2X60 ml
PE Buffer*	11.25 ml	2X11.25 ml
EB Buffer	10ml	10ml

* Add 45 ml ethanol (96%-100%) [not included] to PE Buffer prior to initial use. After ethanol has been added, mark the bottle to indicate that this step has been completed.

Storage:

Clean-Easy Agarose Purification Kit should be stored at room temperature (15–25°C) for up to 12 months without any reduction in performance.

Quality Certifications

Clean-Easy Agarose Purification Kit is tested in the purification of a 0.5 kb DNA fragment excised from 2% agarose gel. The purified band is analysed in agarose gel electrophoresis.

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DETAILED PROTOCOL

1. Using a clean, sharp razor blade or scalpel, excise the DNA ban from the agarose gel. Remove the extra agarose to reduce the size of gel slice. Place the gel slice in a 1.5 ml preweighted tube and weigh the gel slice (The maximum amount of gel slice per column is 400 mg).
2. For gels containing more than 2% agarose, add 3 µL de QG Buffer per mg of gel.
3. Incubate at 50 ° C in a water bath for 10 min or until the gel slice has completely dissolved. During incubation at 50 °C, mix by vortexing or inverting the tubes every 1 minute. Make sure the gel slice completely dissolved.

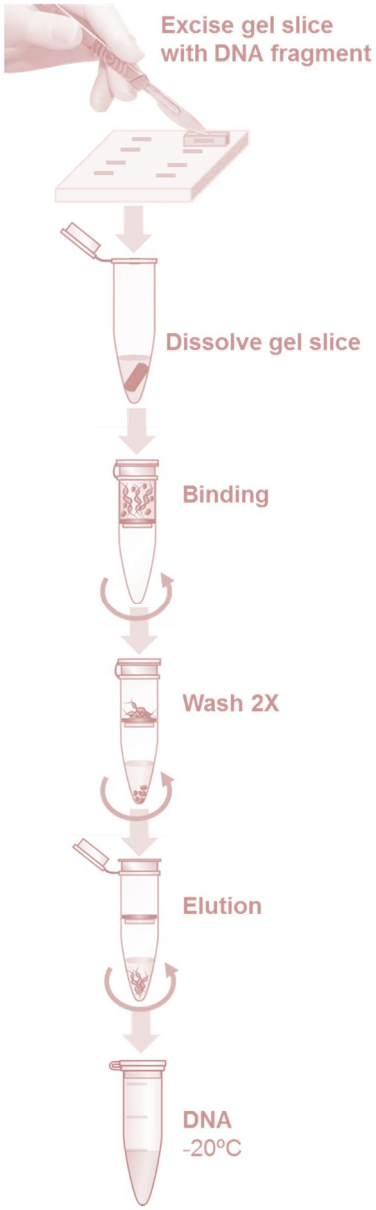
   Important! *For fragments <500 bp and >4 kb add 1 volume of isopropanol to the sample and mix (For example, if the agarose gel slice is 100 mg, add 100 µl isopropanol)*

4. Label the lid of a new minispin column placed in a 2 ml collection tube. Carefully apply the mix from step 1 to the spin column and Centrifuge at 13000 rpm for 1 minute. For mixture volumes of more than 750 µl, load and centrifuge again using the same column.

   Remember! *Before using for the first time, add 45 ml ethanol (96–100%) to PE Buffer as indicated on the bottle.*

5. Place the spin column in a new 2 ml collection tube, and discard the collection tube containing the filtrate. Add 700 µl of PE buffer to the minispin column and centrifuge at 13000 rpm for 1 minute.
6. Discard the flow-through and centrifuge again at 13000 rpm for 1 minute. This step is essential for removing trace buffer PE.
7. Transfer the column to a clean 1.5 ml microcentrifuge tube. Add 30 µl of Elution Buffer (EB) or H2O (pH=7.0-8.5) to the center of the column membrane and incubate at room temperature for 1 minute. Centrifuge at 13000 rpm for 1 minute to elute and collect DNA.

   *To increase the DNA yield you can warm the buffer EB/H2O to 65 °C



PRODUCT USE LIMITATION

This product is developed, designed and sold exclusively for research purposes and *in vitro* use only. The product was not tested for use in diagnostics or for drug development, and is not suitable for administration to humans or animals.

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