# DNA Extraction Kit (low-level)



If you want to do DNA extraction at home,
this is the set for you.
By adjusting the concentration of the solution
with salt and breaking the cell membrane
with a neutral detergent,
the DNA will come out in the water.

## DNA Extraction Kit (mid-level)

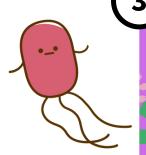


This is a reasonable DNA extraction kit. It can break animal cells, but it may nor work well for plant cells with cell walls...



The best DNA extraction kit. It is complicated to operate, but it can extract DNA quite accurately.

#### Bacillus coli



A type of intestinal bacteria in humans and animals. Most are harmless, but occasionally pathogenic.



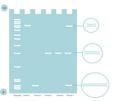
# Famous Paper Wiper



Convenient. You can wipe beakers, lab tables, and glasses

#### **Agarose Gel**

(1)



Gel used for electrophoresis. it is made of a sugar called agarose. It is like agar.

#### **Latex Gloves**

0



EtBr is carcinogenic, so gloves when working with it!

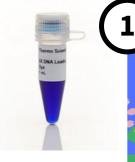
## Ethidium Bromide

1



Commonly known as EtBr.
The one used to make electrophoresis gels.
It is carcinogenic, so handle with care!

# **Loading Dye**



Makes the bands easier to see in electrophoresis

#### **Ethanol**



When ethanol is added to the solution, DNA is more likely to precipitate.

## **Electrophoresis**



Negatively charged DNA is moved under an electric field.

Fragments are separated according to their size.

## **Micropipette**



1

Instrument used for portioning and transferring small volumes (mL, µL) of liquid.





Equipment that uses centrifugal force to separate solids and liquid components in a liquid sample.





For DNA extraction!
Adjust the concentration of the
solution with salt and use a neutral
detergent to break the cell
membrane, and the DNA will come out
in the water.

