



## Banana DNA Extraction Practice

## Human Practices

### Objective:

- Teach students how to extract DNA from a banana using a homemade method with our help.

### Procedure:

1. Cut a banana in half and peel it.
2. **Breake the cells of the banana** mashing it with a fork,
3. **Liberation of DNA from the protective membranes** adding some drops of detergent and mixing vigorously.
4. **Destroy the proteins that cover DNA** adding some salt to the mixture, then adding around 6 mL of pineapple juice and mixing vigorously.
5. **Perform the DNA extraction** filtering the mixture to a beaker using a straining with a napkin upon it.
6. **Group the DNA molecules in insoluble curds** adding an equal volumen of alcohol to the volumen of filtrate in the beaker.

### Result:

- Due to the density of both substances, the DNA will remain as a white fluff between both layers.

### Materials:

- Bananas
- Disposable forks
- Transparent beakers
- Disposable plates
- Alcohol
- Dish detergent
- Salt
- Pineapple juice
- Strainer
- Napkins .