

# WHEAT GERM DNA EXTRACTION

Fringe Lab - University of Minnesota

## Supplies Needed

- Market Science Kit
- Warm Water
- Cup

OR

- Raw Wheat Germ
- Warm Water
- Dish Soap
- Rubbing Alcohol
- Cup or Tube
- Toothpick or Skewer

## INSTRUCTIONS

Want to see how it's done?  
Check out our demo video online!

1. Lay out all your materials and put your alcohol in the freezer
2. Add 1 gram or 0.5 teaspoon of wheat germ to your tube or cup.
3. Add 20 mL or 4 teaspoons of warm water to your wheat germ tube/cup.
4. Shake **vigorously** your wheat germ and water mixture for 3 minutes.
5. Add 1 mL or 1/4 teaspoons of dish soap to the water and wheat germ.
6. Shake **gently** for 2 minutes.
7. **Slowly** add 10 mL or 2 teaspoons of rubbing alcohol to your mixture.
8. Collect DNA from the alcohol layer using a wooden stick or toothpick.
9. Take a photo of you and your DNA and share it with us online!!

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In words or pictures demonstrate what has happened in this experiment.

Try to use as many of the words provided as you can.

Cell  
Soap  
Water  
DNA  
Breakdown  
Inside