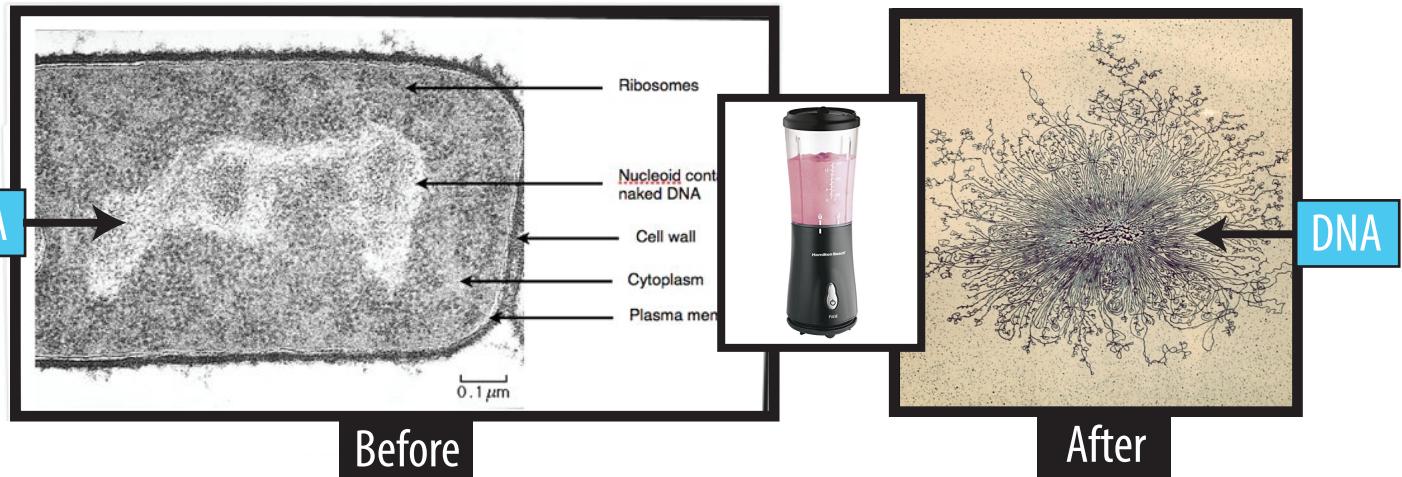
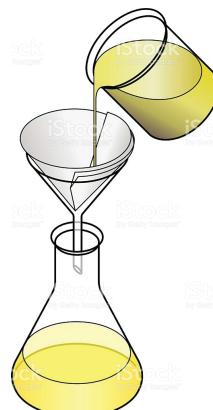


# Purifying DNA from Your Fruit Smoothie

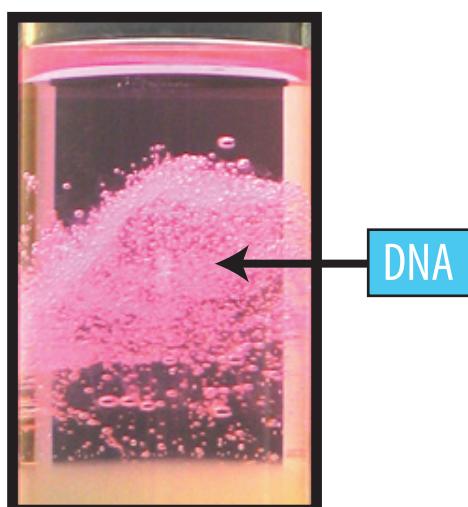
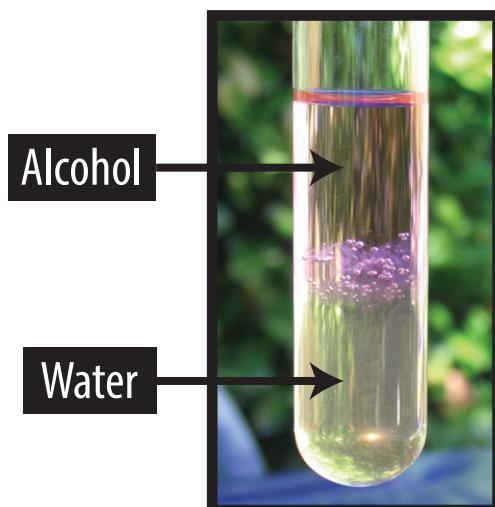
**Step 1:** Extract the DNA from your fruit by breaking apart plant cells.



**Step 2:** Filter fiber and stuff that does not dissolve in water.

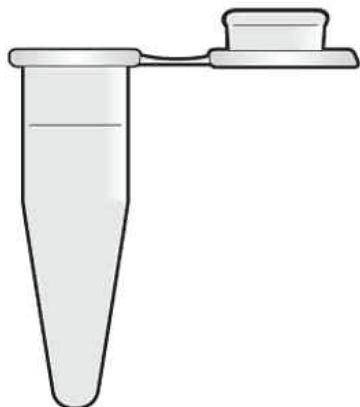
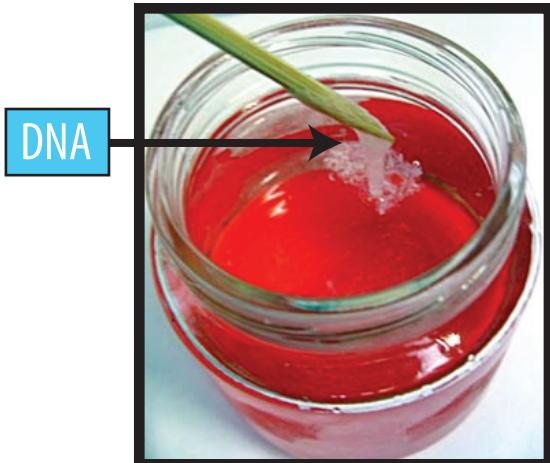


**Step 3:** Coax the DNA out of the water and turn it to jelly in alcohol





## Step 4: Collect your DNA and save it in a tube.



Your very own DNA sample!

## Materials

- Blender → - Physically disrupts plant cell envelope, freeing DNA
- Extraction Solution → - Detergent dissolves lipid membranes, freeing DNA  
- Salt balances charges on surface of cell debris, reducing aggregation and eventually helping to precipitate DNA
- Coffee Filters → - Separates soluble and insoluble plant debris
- Rubbing Alcohol → - Due to its buoyancy DNA will float into the supernatant alcohol, but DNA is insoluble so it precipitates, forming a translucent gel

