DNA Extraction from Wheat Germ

1. Use a dropper to add 6 mL of water to a tube containing 1 gram of dry wheat germ.

2. Invert tube at least 40 times to completely rehydrate the wheat germ. This may take a few minutes.

3. Use a dropper to add 3 mL of soap solution to tube.

4. Invert tube several times until completely mixed. This may take a few minutes.

5. Hold tube on an angle and use a clean dropper to slowly layer 3 mL of ethanol on top of the soap and wheat germ mixture.

6. Let rest for 1–2 minutes or until you see a cloudy, white precipitate (the DNA) start to move into the ethanol layer.

7. Use a plastic loop to lift the DNA from the ethanol layer. Be careful not to push the plastic loop down into the soap.
Wheat

Wheat Grain

Endosperm

Bran

Germ

Plant Cell

Cell and Nuclear Membrane