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To reserve the juice bar, or for more information, please contact Barbara Alonso email: balonso@berkeley.edu or phone: 510-642-1589



## DNA EXTRACTION METHOD

- Select fruit, 3 small kiwis, 6 strawberries, 2 smaller tomatoes softer fruits work better.
- Remove leaves, stems, skin (from kiwi) and chop coarsely.
- 9 Put in blender to blend, add water, if necessary, to achieve "pumpkin soup-like" consistency. Don't overblend; it might still be chunky.
- 4 Add blended fruit to 8 oz. plastic cup  $\sim 1/3$  of cup's volume.
- 6 Add I teaspoon baking soda it will fizz, especially with acidic fruits.
- 6 Stir several minutes until fizzing stops.
- Add equal volume extraction mixture; stir for several minutes.

## **Extraction mixture:**

In I-quart container add:

- 4 tablespoons dishwashing liquid (Palmolive)
- 3 teaspoons iodized salt
- Add water to I quart
- Out single layer coffee filter in strainer and filter mixture into fountain glass. Discard pulp in strainer.
- 9 Add 1/2 teaspoon (2 milliliters) of this mixture into small tube, using graduated "eye dropper".
- Gently layer I teaspoon (4 milliliters) of 95% ethanol down side of tube to form layer on top of mixture using graduated "eye dropper". Try not to mix layers.
- DNA will appear at interface between ethanol and DNA mixture.
- Carefully twirl unfolded paperclip (leaving one end bent in a "U") at interface of two layers to capture the DNA. It will appear as a "snotty glob" when removed from liquid.