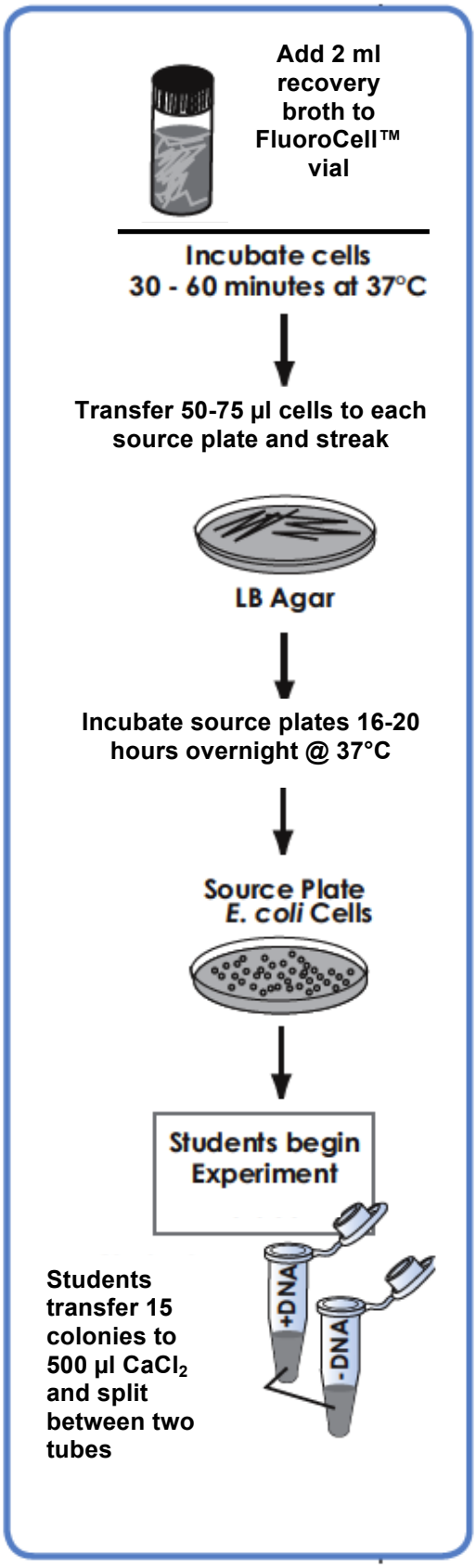
NEW

FluoroCells™ for Fluorescent Transformation
Substitute for BactoBeads
EDVO-Kit #s 222, 223, & 303



Day before the experiment

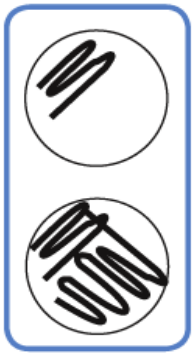
This experiment requires preparation of isolated *E.coli* host transformation colonies 16-20 hours before the laboratory experiment, so plan accordingly.

Important: Do not prepare source plates more than 20 hours before the experiment. Older source plates will compromise the success of the transformation experiment.

Preparation of *E. coli* Cells

1. Use a sterile pipet to aseptically add 2 ml of recovery broth to the vial of FluoroCells™.
2. Replace the rubber stopper of the FluoroCell™ vial and cap. Mix by gently inverting until the freeze dried plug is dissolved.
3. Incubate the vial of cells for 30 - 60 minutes in a 37°C incubation oven.

   Growth should be evident (Broth should be slightly turbid or cloudy). If growth is not evident, incubate for a longer period of time.
4. Transfer 50 - 75 µl of cells to each source plate and streak the cells on one quadrant of each plate with a sterile loop. (figure top right).
5. With the same loop, streak through the cells once or twice into another clean section of the plate (figure bottom right) to obtain isolated colonies.



6. Label the plates "*E. coli*", invert and incubate the plates overnight (16-20 hours) at 37°C in an incubation oven.

   If growth on plates is heavy (i.e. few or no isolated colonies), instruct students to touch the toothpick to a small amount of cells.