



FIRST FIND GROUPS OF 4 AND DECIDE WHICH PAIR OF YOU WILL TRANSFORM STRAIN 4-1 AND WHICH WILL USE 4-2

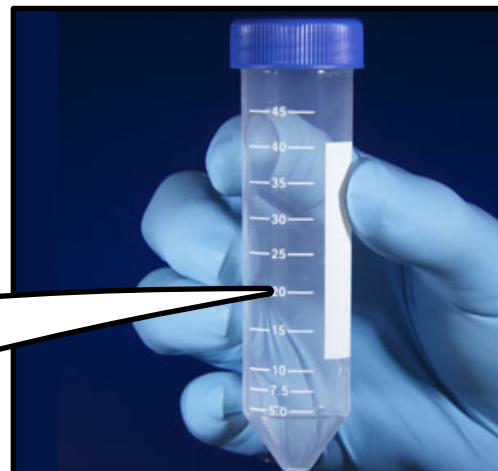
NEXT MAKE SURE YOU HAVE ACCESS TO WHAT YOU NEED:

- 1 PETRI DISH WITH PATCH OF 4-1 OR 4-2 CELLS
- 3 EPPENDORF TUBES (1 PURPLE, 1 GREEN, 1 WHITE)
- 2 CLEAN PETRI DISHES
- 1 CONICAL TUBE WITH LB

CHECK THAT THE TABLE HAS:

- PIPETS (5, 100, 500) AND TIPS
- ICE BUCKET
- CACL₂ AND BOTTLED WATER
- SHARPIES, TIMER, WASTE BUCKET
- GLOVES, BENCH PAPER, TAPE
- BLUE L-SHAPED SPREADERS

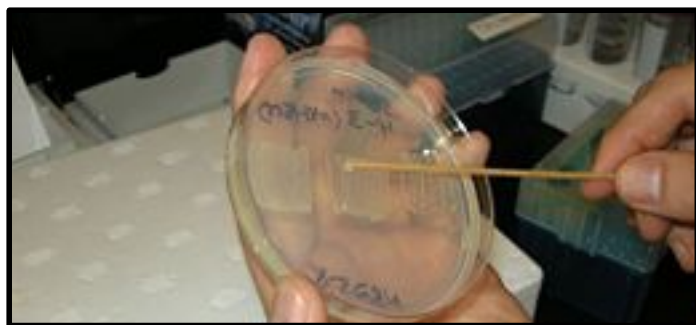
START BY
ADDING 50
ML WATER
TO TUBE
WITH CACL₂
THEN PUT
ON ICE



SCRAPE A PATCH OF 4-1 OR 4-2 CELLS INTO 500 UL CACL₂ IN A WHITE EPPENDORF, LABEL YOUR TUBE AND PUT IT ON ICE FOR 5 MINUTES

ADD 200 UL OF CELLS TO THE PRL DNA THAT'S IN THE PURPLE TUBE AND RETURN IT TO THE ICE

ADD 200 UL OF CELLS TO THE GRN DNA THAT'S IN THE GREEN TUBE AND RETURN IT TO THE ICE



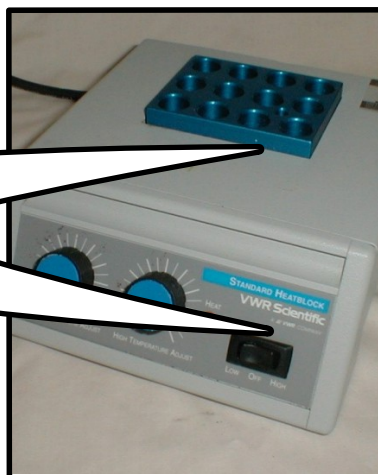
HEAT SHOCK CELLS + DNA
AT 42° FOR 90 SECONDS

REMOVE TUBES FROM HEAT
BLOCK

ADD 500 UL LB TO EACH
TUBE



TIMING
MATTERS
HERE!!



LABEL YOUR PETRI DISHES
WITH THE DNA AND THE STRAIN
THEY WILL RECEIVE + YOUR
NAME

ADD 200 UL OF PRL DNA
+ CELLS TO THE PETRI DISH
YOU'VE LABELED FOR IT

SPREAD THE CELLS WITH A
CLEAN L-SHAPED SPREADER

REPEAT FOR REMAINING
SAMPLE

TAPE PETRI DISHES TOGETHER
& DISCARD TIPS, SPREADERS
AND TUBES IN WASTE BUCKET