

Lab 4: What a Colorful World
(AmpR version)

Biological Materials:

Strain 4-1	NB438	K type cells ER2738, cat#E4104S)
Strain 4-2	NB452	B type cells NEBexp,cat# C2523I

Reagents:

DNA from NB446	pPRL.Amp	0.04ug/ul
DNA from NB451	pGRN.Amp	0.04ug/ul
CaCl ₂ *H ₂ O		0.735 g

Next steps (per student team):

Day 1: patch one square of each strain on an LB plate

Day 2: run tx'n expt (need 6 LB+amp plates, 0.4 ml CaCl₂, 3ml LB)

Day 3: data analysis

Teacher provides:

Consumables

sterile toothpicks
wooden dowels
eppendorf tubes (6)
LB (3ml)
LB+amp petri dishes (6)
LB petri dish (1)
pipet tips
latex or nitrile gloves

Equipment

37° incubator for growing plate
42° heat block
icebucket, ice
timer
eppendorf rack
spreader + flame OR sterile glass beads
sharpie pens
pipetmen (P1000, P200, P20)