

Lab Notebook Entry 55

Date Performed

7-Jun

Procedure

XbaI digest to test pThermolyse

Details

Purpose: Cutting with XbaI will create a different band pattern depending on if our gibson assembly worked or not. Materials: pThermolyse backbone samples, XbaI (keep on ice when you take it out. restriction enzymes are super expensive and also very sensitive to heat), 10X Cut smart buffer, PCR water

Protocol

Do a digest for each of the 3 samples. Use the protocol in the 2017 protocols file. Here are the missing details: DNA amount-> You need to calculate this based on the concentration of each DNA sample, written on the side. You want to use 1ug of DNA, and the concentrations will be written in ng/uL so you will have to convert. Buffer-> XbaI uses cutsmart buffer. Heat cycler program-> 37C for 1 hour, 65C for 30 mins (heat inactivation), 4C for 99 hours (infinity)