Name: Saleh
Date: 8/23/19

Goal:

1. Gel extraction of Dino III RFP

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Protocol:

Gel Extraction Dino III RFP

1. Used 50 mL falcon tube for each gel and added all gel fragments from one gel into the same 50 mL falcon tube
2. Weighed the gel fragments
3. Added 3 times volume of Buffer QG to gel fragments
    a. Ex: Dissolved 3.6 grams of agarose in 11 mL Buffer QG
4. Vortexed to dissolve gel fragments
5. Added 1 volume of isopropanol
    a. 3.6 mL isopropanol
6. Added 750 µL of the solution to spin columns, centrifuged for 1 minute ad discarded the flow through until all the solution had run through
    a. For every 0.4 grams of agarose you need 1 spin column so for 3.6 g of agarose you'd need 9 spin columns
7. Added 750 µL of Buffer QG to each of the spin columns, centrifuged for 1 minute, and discarded the flow through
8. Added 750 µL Buffer PE to each of the spin columns, centrifuged for 1 minute, and discarded the flow through
9. Centrifuged the spin columns empty to remove the residual buffer.
10. Added 50 µL Buffer EB to each of the spin columns and eluted the DNA into two different clean eppendorf tubes, making sure the solution doesn't touch the tip of the spin column.

Results:

The concentrations were too low to read.

Conclusion:

Since the concentrations were too low, an ethanol precipitation was subsequently prepared.