

DNA Extraction & Precipitation

White Book pages 40-41

Black Book pages 48-49

Title of Lab (2 points)

- Title of Lab is written on Every Page of the Lab

Signature & Witness (2 points)

- In the Signature & Witness section WRITE your name (NO Rock Star Signature).
- Teacher needs to be able to read your name. Your Witness is your lab partner.
- Every page of the lab needs your name and a witness. The witness can sign like a rock star!

Lab Objectives (6 points) *All items in **BOLD** need to be in a BOX.

- Copy ALL 3 objectives

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|----------------|
| Lab Objectives |
|----------------|

Safety (5 points)

- PPE, MSDS, & ONLY handle your own biologicals (your spit)
- Aseptic technique – do not touch tubes with pipet- drop from above

Materials (5 points)

- Copy list in a bullet format (list)
- You do not have to copy the quantities, just the items we will be using

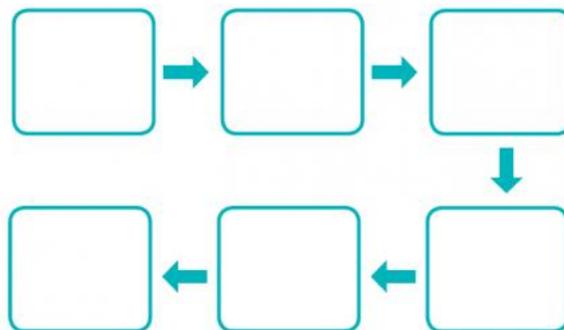
Pre-lab Questions (6 total) (12 points) each question is worth 2 points

Only write answers & number each question

- 1.
- 2.
- 3.
- 4.
- 5.
- 6.

Procedure (put in a flow chart in your lab notebook) 20 points

1. Label your tube with your name / initials
2. Go to water fountain and add 3 mL of water
3. Chew on cheek 30 sec
4. Put water in mouth and swish (like mouthwash)
5. Add 2mL of lysis buffer
6. Cap tube and invert 5 times – do NOT shake
7. Add 5 drops of protease & salt solution
8. Tube in water bath for 10 min 50 degrees Celsius
9. Add cold iso to slanted tube
10. Put tube in rack and look for snot!
11. Take the snot (DNA) out of tube and put into necklace



Post Lab Questions (1-4) (8 points) each question is worth 2 points

- 1.
- 2.
- 3.
- 4.

Lab Conclusion (30 points) each vocab word is worth 5 points

Write a paragraph with the following terms. Underline each term. Finish your paragraph with a sentence about how this biotech skill could be used in the real world.

- DNA
- Precipitation or Precipitate
- Extract or Extraction
- Protease
- Salt
- Lysis

Lab Quiz (10 points)

You will be given a lab quiz. You can use your lab notebook to help you with the lab quiz. Since the quiz is open lab notebook, you will NOT be allowed a quiz re-take.