Questions Lab 9: Pipeting, DNA Isolation

Micropipetting and DNA Isolation

Utsav Acharya, BIO 1120 Section 03

Instructor: Christina Minassian

04/01/2025

Important Questions to Consider

1.How might you calibrate the pipettes that you used in this experiment?

Answer :

Can measure out water by volume or weight to double check

2.What is the purpose of Chelex in the DNA extraction?

Answer :

Chelex binds to metal ions that could degrade DNA, helping to protect the nucleic acids during the extraction process.

3.What remains in your DNA preparation besides the DNA?

Answer:

The DNA preparation may contain residual proteins, salts, cellular debris, and any remaining Chelex particles that were not fully removed during the process.

4.How can you isolate DNA from these other molecules?

Answer:

Centrifugation serves to separate DNA from Chelex and other impurities during our laboratory class sessions. The supernatant liquid retains DNA because unwanted substances settle into a pellet at the tub's bottom. A book with text on it

AI-generated content may be incorrect. A paper with text on it

AI-generated content may be incorrect. A paper with writing on it

AI-generated content may be incorrect.