

# Chapter 10.10 From DNA to Protein Synthesis

## Problems

What percentage of total cell protein is protein?

## Background

Genetic proteins are the main structural components of living cells. In addition, they also are involved in metabolism, cell division, and other "life" processes. The specific sequence of amino acids in the protein is determined by the sequence of nucleotides in the DNA. The amino acids are joined together by peptide bonds to form a polypeptide chain. The polypeptide chain is then folded into a specific three-dimensional shape to form a protein.

Explain how you will determine the percentage of total cell protein that is protein.

## Methodology

### Experimental Design

### Pre-Lab Questions

1. **Background** I require exactly the protein you will use to determine the percentage of total cell protein that is protein. Explain your experimental design and justify your design.
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  - \_\_\_\_\_
2. **Compare and contrast** what will change when you determine the percentage of total cell protein that is protein.
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  - \_\_\_\_\_
3. **Protein** I think you will get approximately 10% of the total protein that is protein.
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# From Dna To Protein Synthesis Chapter 13 Lab

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