

## Chapter 6

### Identifying a Potential Biotechnology Product

1. Give examples of biotechnology products derived from plant and animal sources and discuss the challenges of extracting compounds from plants as well as the strategies for overcoming them.
2. Identify the steps in a Comprehensive Product Development Plan and use it to determine whether a potential biotechnology product is worth pursuing.
3. Explain how scientists test the effectiveness of antibiotics and antimicrobials. Discuss the significance of antibiotic resistance.
4. Describe the typical recombinant DNA protein product pipeline. How long does it take to develop, test, and market a typical rDNA protein product?
5. A researcher wants to insert a gene into strawberry cells to prevent strawberries from freezing. Propose how that could be done using protoplast technology.

