

A Problem

- Your lipase-producing strain grows slowly in a small-scale fermenter.
- Yield of lipase, a primary metabolite, is low.
- How can you improve the yield?

Objectives

1. Compare and contrast each of the following pairs:
 - a. Natural selection and artificial selection
 - b. Selective breeding and recombinant DNA
2. Explain how each of the following is used to improve a product: selection; high-throughput screening; enrichment; mutation; directed evolution.
3. Describe the process of making rDNA using a plasmid vector.

Semi-synthetic products








