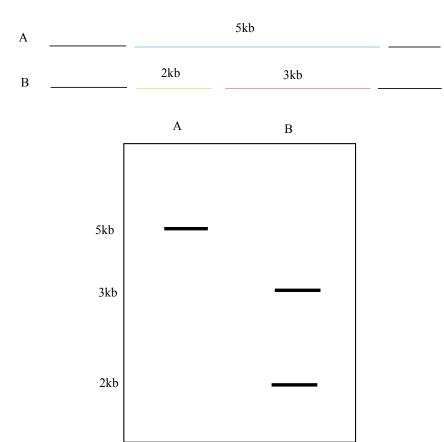
CONCEPT: NUCLEIC ACID HYBRIDIZATION

- - □ Southern blotting detects specific genes in cellular DNA
 - DNA from a cell is separated by gel electrophoresis
 - The DNA is transferred to a filter paper
 - A DNA probe complementary to a sequence of interest is incubated with the filter
 - The probe is fixed with a fluorescent or radioactive molecule for detection
 - □ **Northern blotting** detects specific RNA sequences

EXAMPLE: Southern Blotting



PRACTICE:

- 1. Which method is used to detect RNA sequences?

 a. Northern blotting
 b. Southern blotting
 c. Western blotting
 d. Eastern blotting