

How can you tell which bacterial colonies contain a particular foreign DNA fragment?

- A Use a radioactive DNA probe that hybridizes with the DNA of interest.
- B Perform PCR on the DNA from each of the colonies.
- C Cut the DNA from each colony with a different restriction enzyme.

A replica of the master plate is created on a nitrocellulose filter. The DNA is made double stranded. A radioactive DNA probe for the sequence of interest is added. It binds to any single-stranded DNA that has a complementary nucleotide sequence pinpointing the location of that colony on the master plate.

Answer **A**.