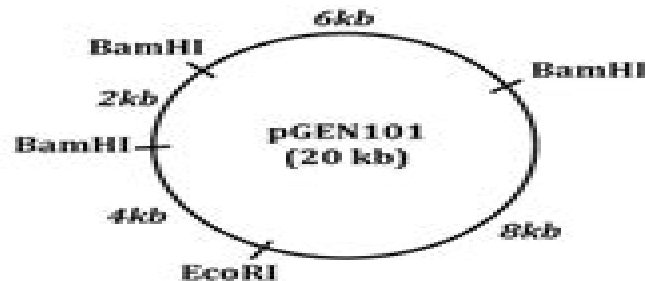


Name: _____

Date: _____

Restriction Mapping

1. Below is a restriction map for the plasmid pGEN101 (total length = 20 kb). Using this map as a guide, give the number of restriction fragments along with their associated lengths that would result from digesting pGEN101 with the restriction enzymes EcoRI, BamHI, and a combination of EcoRI + BamHI.

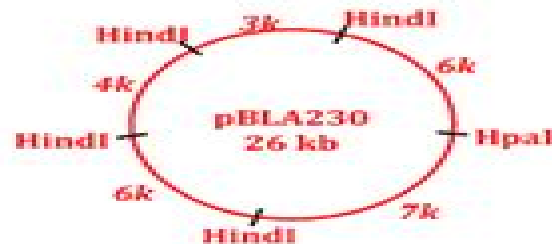


Digest Performed	Size of Fragments Obtained
EcoRI	20 kb
BamHI	2 kb, 6 kb, 12 kb
EcoRI + BamHI	2 kb, 4 kb, 6 kb, 8 kb

2. Two freshmen college students performed the following set of restriction digests on a newly isolated plasmid, pBLA230. The reaction they carried out, along with the fragments obtained in single and double digest reactions, were:

Digest Performed	Size of Fragments Obtained
HpaI	26 kb
HindIII	13 kb, 6 kb, 4 kb, 3 kb
HpaI + HindIII	7 kb, 6 kb (2), 4 kb, 3 kb

Using this information, construct a restriction map of pBLA230.



Restriction Enzyme Practice Problems Answers

Xiang Xie



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