

# DIGESTION OF GENOMIC DNA FOR LIBRARY CONSTRUCTION

## Test

1. Set up following digest:

10  $\mu\text{g}$  DNA

10  $\mu\text{l}$  10 x Sau 3A buffer

10  $\mu\text{l}$  1mgml<sup>-1</sup> BSA


10  $\mu\text{l}$  10 mM spermidine

up to 100  $\mu\text{l}$  with dH<sub>2</sub>O

2. Divide mixture into 1 tube of 20  $\mu\text{l}$  and 8 tubes of 10  $\mu\text{l}$ .

3. To the tube with 20  $\mu\text{l}$  mix, add 1 unit of Sau 3A enzyme.

4. Dilute as follows:

	1	2	3	4	5	6	7	8	9	10
Mix	20	10	10	10	10	10	10	10	10	10
	10									
Sau3A	1u		.125		.03125		.0078		.002	
		.25		.0625		.0156		.0039		.001

5. 1 hour at 37°C.

6. Add 2  $\mu\text{l}$  100 mM EDTA to each tube to stop reaction.

7. Run on 0.5 % agarose gel alongside markers to check.

8. Look for sample that gives the tightest band at 15-25 kb.

Large prep.

