

IKEDA

PP 296-297

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Supplementary Material

J-297-M₁

A) Rsa I - Lanes 1-8: Reaction volume = 80 $\mu\ell$, Total DNA = 4 μg pBR322, enzyme added = 0.5 units, BMSp/DNA (bp) = 0.08, Times (mins) = 1) 45, 2) 80, 3) 95, 4) 110, 5) 125, 6) 210, 7) 310, 8) 410. Lanes 9-16: Intercalator/DNA = 0.00, Times (mins) = 9) 140, 10) 100, 11) 75, 12) 60, 13) 45, 14) 30, 15) 15, 16) 10. Electrophoresis = 80 V for 22 hours. Gel = 15 x 14.5 x 0.4 cm.

B) Rsa I - Lanes 1-8: Reaction volume = 80 $\mu\ell$, Total DNA = 3 μg pBR322, enzyme added = 0.375 units, EB/DNA (bp) = 0.16, Times (mins) = 1) 30, 2) 60, 3) 75, 4) 90, 5) 105, 6) 150, 7) 190, 8) 270. Lanes 9-16: Intercalator/DNA = 0.00, Times (mins) = 9) 160, 10) 130, 11) 100, 12) 75, 13) 55, 14) 40, 15) 25, 16) 10. Electrophoresis = 120 V for 12 hours. Gel = 15 x 14.5 x 0.4 cm.

C) Bgl I - Lanes 1-10: Reaction volume = 50 $\mu\ell$, Total DNA = 2 μg pBR322, enzyme added = 2.8 units, Lanes 1-5 EB/DNA (bp) = 0.16, Times (mins) = 1) 2, 2) 5, 3) 10, 4) 15, 5) 30. Lanes 6-10: Intercalator/DNA = 0.00, Times (mins) = 6) 1, 7) 3, 8) 6, 9) 9, 10) 15. Lanes 11-16: Reaction volume = 50 $\mu\ell$, Total DNA = 3 μg pBR322, enzyme added = 4.2 units, BMSp/DNA (bp) = 0.08, Times (mins) = 11) 85, 12) 90, 13) 98, 14) 106, 15) 115, 16) 150. Gel electrophoresis = 130 V for 19 hours. Gel = 15 x 14.5 x 0.4 cm.

D) Mst I - Lanes 1-6: Reaction volume = 60 $\mu\ell$, Total DNA = 3.0 μg pBR322, enzyme added = 1.11 units, BMSp/DNA (bp) = 0.08, Times (mins) = 1) 2, 2) 10, 3) 40, 4) 80, 5) 150, 6) 240. Lanes 7-12: Reaction volume = 50 $\mu\ell$, Total DNA = 2.4 μg pBR322, enzyme added = 0.89 units, Intercalator/DNA = 0.00 Times (mins) = 7) 540, 8) 300, 9) 270, 10) 240, 11) 210, 12) 180. Gel electrophoresis = 160 V for 41 hours. Gel = 30 x 14.5 x 0.4 cm.

J-297-H2

