



**Restriction enzyme digest of the Jessous genome and  $\lambda$  control.** Purified Jessous genomic DNA ( $\approx 500$  ng) was digested with the indicated restriction enzymes for 1 hour at  $37^\circ\text{C}$ , then resolved on a 1% agarose gel containing  $10\text{ }\mu\text{g/mL}$  ethidium bromide and imaged under UV illumination. Among all enzymes tested, only TaqI and MseI produced detectable cleavage patterns for Jessous, indicating that these two endonucleases successfully cut the Jessous genome under the experimental conditions. All other enzymes showed no visible digestion pattern, consistent with the apparent resistance of Jessous DNA to these restriction sites.

As a positive control,  $\lambda$  (lambda) DNA was digested with the same panel of enzymes. The  $\lambda$  lanes display the expected, well-defined restriction patterns, confirming that all enzymes were functional and that reaction conditions were appropriate. Together, these results demonstrate that Jessous exhibits partial restriction sensitivity, with cleavage detectable only for TaqI and MseI.