



Restriction enzyme digest of bacteriophage *Mahtaab* genomic DNA.

Purified *Mahtaab* genomic DNA and Lambda phage DNA (control) were digested with the restriction enzymes EcoRI, KpnI, SmaI, HaeIII, TaqI, and MseI under recommended conditions. Digests were incubated for 1.5 hours at 37 °C. Digested DNA samples were separated by agarose gel electrophoresis on a 1% agarose gel pre-stained with ethidium bromide and visualized under UV illumination. A 1 kb DNA ladder was used for Mahtaab and Lambda DNA samples to allow size estimation. Mahtaab DNA displays enzyme-specific restriction patterns, with some enzymes producing multiple fragments and others producing limited or no fragmentation, consistent with a unique genomic restriction profile