



Enhancement of pectinase production by ultraviolet irradiation and diethyl sulfate mutagenesis of a *Fusarium oxysporum* isolate

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ABSTRACT. *Fusarium oxysporum* strain BM-201 was treated with ultraviolet (UV) radiation to obtain a high pectinase-producing strain. Mutant UV-10-41 was obtained and then treated by diethyl sulfate. Next, the mutant UV-diethyl sulfate-43 derived from UV-10-41 was selected as high pectinase-producing strain. Mutant UV-diethyl sulfate-43 was incubated on slant for 10 generations, demonstrating that the pectinase-producing genes were stable. Pectinase activity reached 391.2 U/mL, which is 73.6% higher than that of the original strain.

Key words: *Fusarium oxysporum*; Mutant; Pectinase