An endo-ß-1,4-glucanase (EG), produced under submerged fermentation by local isolate Trichoderma atroviride, was purified using ammonium sulfate precipitation, column and ion exchange chromatography with 55.16 fold and a specific activity of 30.9 EU mg–1. The studies of PAGE, SDS-PAGE and zymogram test have been carried out. The EG had optimum activity at pH 5.0 and 50 °C respectively. Using CMC as substrate, the enzyme showed maximum activity (Vmax) of 6.7 (µmol glucose min–1) mL–1 with its corresponding Km (Michaelis-Menten constant) value of 1.12 mg mL–1. While the EG activity was activated by NaCl, inhibited by MgCl2 and MgSO4.