

Supplementary Material



Supplementary Figure 1 Uracil-DNA glycosylase activity of *stoUDG* and *stoUDGΔ*. (a) Double-stranded oligonucleotides sequence. A uracil-containing oligonucleotide with hexachloro-fluorescein (HEX) label was designed as Suppl. Fig. 1a and the synthesized complementary oligonucleotides (except for uracil paired with guanine) were purchased from BEX CO.,LTD (Tokyo, Japan). The oligonucleotides were annealed by heating at 368 K for 5 min and then cooling slowly to room temperature. (b) Purified enzymes (0 or 20 fmol) were incubated in a 20 μl reaction mixture containing double-stranded HEX-labeled oligonucleotides (2 pmol), 50 mM Tris-HCl pH 8.0, 5 mM EDTA, 1 mM DTT and 0.1 mg ml⁻¹ BSA at 310 K for 10 min. The reaction was stopped by the addition of 5 μl 1 M NaOH and the reaction mixtures were heated at 363 K for 10 min to cleave the abasic sites. The reaction mixtures were resolved on a denaturing 15% polyacrylamide gel containing 8 M urea and then visualized using a Molecular Imager FX System (Bio-Rad).