Table S1. Percent of repair of 1 pmol of oligodeoxynucleotide with a single lesion during 1 h incubation in 37°C with 1 pmol of bacterial AlkB proteins.

|  |  |  |
| --- | --- | --- |
| Enzyme | Percent of repair in **ssDNA** | Percent of repair in **dsDNA** |
| εA | εC | 1,*N*2-εG | εA | εC | 1,*N*2-εG |
|  | 1 pmol of the enzyme |
| EcAlkB | 28±2 | 8±2.5 | 24±0.8 | 67±7.2 | 23±18.5 | 23±4.1 |
| XC-1B | 21±1.9 | 6±0.7 | 15±2.3 | 74±1.3 | 31±16 | 27±4.4 |
| XC-2B | 44±11.6 | 77±13.7 | 56±8.5 | 29±5.3 | 27±3.7 | 54±8.8 |
| RE-2A | 29±11.3 | 9±0.4 | 12±1.5 | 20±1.8 | 30±8.4 | 27±4.8 |
| SA-1A |  |  |  | 15±1.5 | 6±0.8 | 26±5.5 |
|  | 25 pmol of the enzyme |
| EcAlkB | 68±2.1 | 72±3 | 56±23 | 80±0.7 | 70±0.4 | 56±9.7 |
| XC-1B | 74±0.8 | 26±0.3 | 20±4.7 | 84±2.3 | 86±2.7 | 24±1.2 |
| XC-2B | 86±0.2 | 92±0.3 | 89±2.6 | 80±1.1 | 82±6 | 90±2.8 |
| RE-2A | 68±4.1 | 81±0.6 | 36±7.4 | 62±12 | 75±0.8 | 44±11.2 |
| SA-1A |  |  |  | 30±1.1 | 8±0.4 | 50±8.7 |
| SA-2B |  |  |  | 25±7.7 | 7±4.6 | 77±3.1 |
| SC-1A |  |  |  | 25±10 | 12±3.6 | 66±1.2 |
| SC-2B |  |  |  | 26±2.9 | 16±5.4 | 42±9.4 |