



lose the damage, keep the genes.

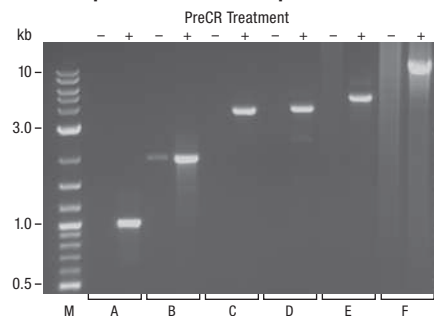
## PreCR™ Repair Mix from New England Biolabs

REPAIR A BROAD RANGE OF DNA DAMAGE PRIOR TO PCR

Increase your chances for successful PCR with the PreCR™ Repair Mix. This innovative blend of recombinant proteins is designed to repair damaged DNA prior to its use in PCR reactions. All it takes is a simple 20 minute reaction to repair a wide range of DNA damage due to heat, low pH, oxygen, and UV light.\*

\*Not recommended for highly fragmented DNA or for damage due to DNA crosslinks

### Proven Repair with the PreCR Repair Mix



A: UV exposure (λ DNA) E: hydrolysis & UV exposure (λ DNA)  
 B: heat treatment (λ DNA) F: hydrolysis (λ DNA)  
 C: oxidation (plasmid) M: 2-Log DNA Ladder (NEB #N3200)  
 D: UV exposure (human genomic DNA)

### Advantages:

- Suitable for PCR, microarrays and other DNA technologies
- Does not harm DNA template
- Can be used in conjunction with any thermophilic polymerase
- PCR can be done directly on repair reaction
- Easy-to-use protocols included

### Product information:

PreCR™ Repair Mix ..... M0309S/L

For more information and our international distribution network, please visit [www.neb.com](http://www.neb.com)

DNA Damage	Cause	Repaired by PreCR Repair Mix
abasic sites	hydrolysis	✓
nicks	hydrolysis nucleases shearing	✓
thymidine dimers	UV radiation	✓
blocked 3'-ends	multiple	✓
oxidized guanine	oxidation	✓
oxidized pyrimidines	oxidation	✓
deaminated cytosine	hydrolysis	✓
fragmentation	hydrolysis nucleases shearing	X
Protein-DNA crosslinks	formaldehyde	X