

PCR Optimization: pH Guidelines

- ▶ The 10X buffer contains a buffering agent (usually Tris-HCl) to maintain constant pH.
- ▶ The ideal pH for PCR is 8.4. For long templates, a higher pH (pH 9.0) is suggested.
- ▶ The pH of the Tris buffer in the reaction mix will decrease at high temperatures. The lower pH may cause depurination of the template, resulting in a lower yield of amplicons.