

	Made in USA																		
Catalog Number	600195																		
Product Name	Taq2000 DNA Polymerase																		
Quantity	100 U (sufficient for forty 50- μ l reactions)																		
Concentration	5 U/ μ l																		
Certified By	Sarah Jandle																		
Quality Controlled By	Tricia Molina																		
Shipping Conditions	Shipped on dry ice.																		
Storage Conditions	Store at -20°C upon receipt.																		
Description	<i>Taq2000</i> DNA polymerase is a recombinant, highly-purified <i>Taq</i> DNA polymerase isolated from the thermophilic bacteria, <i>Thermus aquaticus</i> . It is a DNA-dependent DNA polymerase which has a temperature optimum of 80°C and remains active when heated to 95°C.																		
10x Reaction Buffer	100 mM Tris-HCl (pH 8.8) 500 mM KCl 15 mM MgCl ₂ 0.01% (w/v) gelatin																		
Unit Activity	One unit of activity is the amount of enzyme required to incorporate 10 nanomoles of [³ H]dTTP in 30 minutes at 72°C.																		
Test Conditions	<i>Taq2000</i> DNA polymerase was tested by polymerase chain reaction (PCR) using multiple primer-template systems. The resulting amplification products were visualized on an agarose gel to verify the production of discrete products.																		
Contamination Test Conditions	<i>Taq2000</i> DNA polymerase is tested for the absence of detectable nonspecific nuclease and DNA contamination.																		
PCR Protocol	<p>For a 50-μl reaction, add the following components <i>in order</i> to a nuclease-free microcentrifuge tube:</p> <ul style="list-style-type: none"> x μl of dH₂O for a final reaction volume of 50 μl 5 μl of 10\times <i>Taq</i> Polymerase Buffer 0.4 μl of 100 mM dNTP mix (25 mM each dNTP) 1 μl of 10 μM forward primer 1 μl of 10 μM reverse primer 100 ng genomic DNA or 5-30 ng vector DNA 0.5 μl of <i>Taq2000</i> DNA Polymerase (5 U/μl) <p>Mix the reaction gently, then place the reaction in a thermocycler and run the following PCR amplification program:</p> <table border="1"> <thead> <tr> <th>Cycles</th> <th>Temperature</th> <th>Duration</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>95°C</td> <td>1 minute</td> </tr> <tr> <td></td> <td>95°C</td> <td>30 seconds</td> </tr> <tr> <td>30</td> <td>Primer T_m-5°C</td> <td>30 seconds</td> </tr> <tr> <td></td> <td>72°C</td> <td>1 minute/kb</td> </tr> <tr> <td>1</td> <td>72°C</td> <td>10 minutes</td> </tr> </tbody> </table>	Cycles	Temperature	Duration	1	95°C	1 minute		95°C	30 seconds	30	Primer T _m -5°C	30 seconds		72°C	1 minute/kb	1	72°C	10 minutes
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Storage Buffer	<i>Taq2000</i> DNA polymerase is supplied in 20 mM Tris-HCl (pH 8.0), 100 mM KCl, 1 mM dithiothreitol (DTT), 0.5% (v/v) Igepal CA-630, 0.5% (v/v) Tween®20, 0.1 mM EDTA and 50% (v/v) glycerol.																		
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Endnotes

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