

	Made in USA																		
Catalog Number	600197																		
Product Name	Taq2000 DNA Polymerase																		
Quantity	1000 U (sufficient for 400 50-µl reactions)																		
Concentration	5 U/µl																		
Certified By	Sarah Jandle																		
Quality Controlled By	Tricia Molina																		
Shipping Conditions	Shipped on dry ice.																		
Storage Conditions	Store at -20°C upon receipt.																		
Description	Taq2000 DNA polymerase is a recombinant, highly-purified Taq DNA polymerase isolated from the thermophilic bacteria, Thermus aquaticus. 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 MgCl2 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	Taq2000 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	Taq2000 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> <p>x µl of dH2O for a final reaction volume of 50 µl 5 µl of 10× Taq 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 Taq2000 DNA Polymerase (5 U/µl)</p> <p>Mix the reaction gently, then place the reaction in a thermocycler and run the following PCR amplification program:</p> <table><tr><th>Cycles</th><th>Temperature</th><th>Duration</th></tr><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></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
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																	
Storage Buffer	Taq2000 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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