

Properties of Thermostable DNA Polymerases

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Organism	<i>Taq*</i> (<i>Thermus aquaticus</i>)	<i>Tfl</i> (<i>Thermus flavus</i>)	<i>Tth</i> (<i>Thermus thermophilus</i>)	<i>Tli</i> (<i>Thermococcus litoralis</i>)	<i>Pfu**</i> (<i>Pyrococcus furiosus</i>)
MW	80kDa	94kDa	94kDa	90kDa	92kDa
Extension Temperature	74°C	74°C	74°C	74°C	75°C
5'→3' Exonuclease Activity	Yes	Yes	Yes	No	No
3'→5' Exonuclease Activity	No	No	No	Yes	Yes
Reverse Transcriptase Activity	Weak	Yes	Yes	No	N/A
Predominant PCR Product Ends	3'-A	3'-A	3'-A	70% Blunt; 30% Single-base overhangs	Blunt

* GoTaq® DNA Polymerase and PCR Master Mix contain *Taq* DNA polymerase.

** Not available in North America.

N/A = Not available.

Reference

Newton, C.R. and Graham, A. (1994) In: *PCR, BIOS Scientific Publishers, Ltd., Oxford, UK.* 13.