ADS™ *Taq* DNA Polymerase User Manual

Product catalog numbers

Catalog Number	Unit Size	Components
101004	400 units (80 µL)	*Taq* DNA polymerase 400 units, 80 µL; 5x PCR Green Buffer 3 mL
101020	2000 units (400 µL)	*Taq* DNA polymerase 2000 units, 400 µL; 5x Green Buffer 18 mL

Product description

Taq DNA polymerase is frequently used in PCR amplification of DNA fragments. The cost-effective ADS *Taq* DNA polymerase has been routinely used for generation of PCR templates for DNA sequencing.

Product storage conditions

Store the *Taq* DNA polymerase and 5x Green Buffer at -20 °C upon arrival.

PCR reaction setup

Components	25 µL reaction	50 µL reaction	Final concentration or note
5x Green PCR Buffer	5 µL	10 µL	Make it 1x Green buffer
10 mM dNTPs	0.5 µL	1.0 µL	200 µM
Primer 1 and 2 (10 µM each)	0.5 µL each	1.0 µL each	0.2 µM
DNA template	Varies based on DNA complexity	Varies based on DNA complexity	High-complexity DNA (genomic DNA) at 100 ng to 1 µg DNA per 50 µL reaction; Low complexity DNA (plasmids) at 1 pg to 10 ng DNA per 50 µL reaction
Taq DNA polymerase	0.125 µL	0.25 µL	1.25 U per 50 µL reaction
H_2O	To final 20 µL	To final 50 µL	Add water last up to the final volume
Total Volume	20 µL	50 µL	

Vortex the reaction mixture and do a quick spin in a bench centrifuge. Program and run the PCR reaction before purifying the PCR product using the ADS PCR Cleaning beads.

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