

# Easy-to-use PCR Bundle:

Convenient, consistent and cost effective!

PCR is the most widely applied method for amplifying target DNA. All PCR reactions require a thermostable DNA polymerase, deoxynucleotide triphosphates, a target sequence and a pair of complementary oligonucleotide primers. The GenScript PCR bundle provides PCR reagents in a convenient easy-to-use kit or as separate toolbox items.



GenScript PCR Bundle Features:

- Convenient and time saving kit includes *Taq* DNA Polymerase, dNTPs and PCR master Mix.
- No contamination activity has been detected in standard test reactions.
- Cost-effective kit or single PCR reagents available.

## Bundle List

Cat.No*	Name	Size	Price
L00342	High-Stability PCR Kit	1 Kit	\$64
E00007-1000	<i>Taq</i> DNA Polymerase	1000 U	\$60
E00043-1000	Green <i>Taq</i> DNA Polymerase	1000 U	\$60
C01689	Stabilized dNTP Mix, 10 Mm each	0.5 ml	\$29
E00019	2X <i>Taq</i> Master Mix	100 rxns	\$43
D0056	dNTP mixture, 10 mM each	0.5 ml	\$25
B0005	10X <i>Taq</i> Buffer	1.5 ml	\$10
E00008	<i>Taq</i> DNA Polymerase without Mg <sup>2+</sup>	1000 U	\$60
E00012	<i>Taq</i> DNA Polymerase, concentrated	2500 U	\$149
M102O-100	100 bp DNA Ladder	500 µl	\$55
M102O-500	100 bp DNA Ladder	5 × 500 µl	\$170

\* These products are also available in larger package sizes. For customized PCR bundle, please contact via [product@genscript.com](mailto:product@genscript.com)

GenScript's High-Stability PCR kit (L00342) contains Green *Taq* DNA Polymerase, 10X *Taq* buffer and Stabilized dNTP Mix. GenScript *Taq* DNA Polymerases can generate PCR products with accuracy and speed up to 8 kbs. Green *Taq* DNA polymerase has a longer half-life and can therefore significantly increase PCR DNA product yields, especially for long fragments where longer elongation times are needed (Figure 3). The enhanced stability of Green *Taq* polymerase allows it to be stored at room temperature for up to two weeks without any decrease in activity (Figure 4) or for over six months at 4°C.

Enzyme characteristics	
Target length	up to 8 Kb
Hot Star	No
Contaminating (nucleases/ RNases/ proteases)	No
Error Rate	$4.3 \times 10^{-6}$

### High PCR yield and specificity when amplifying DNA fragments

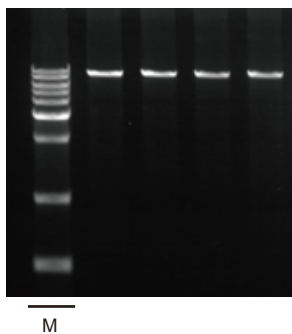


Figure 1: A 8-kb fragments from  $\lambda$ DNA was amplified by *Taq* DNA Polymerase (E00007-1000)  
M: KB DNA Ladder

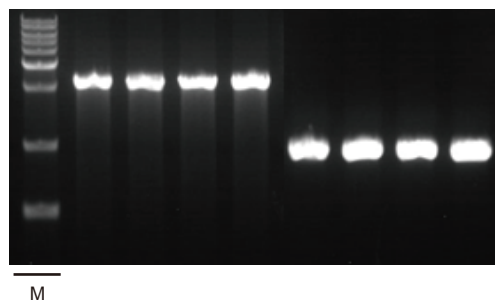


Figure 2: 2 Kb and 1 Kb fragments from Puc57 was amplified by *Taq* DNA Polymerase (E00007-1000)  
M: KB DNA Ladder

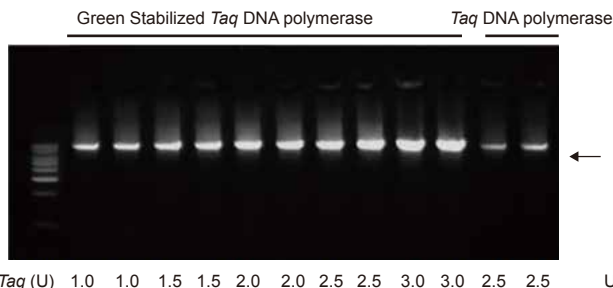


Figure 3: A 8-kb fragment from  $\lambda$ DNA was amplified by using both *Taq* DNA polymerase and Green *Taq* DNA polymerase. The Green *Taq* DNA polymerase (E00043-1000) can be stored at 37°C for 14 days without activity loss.

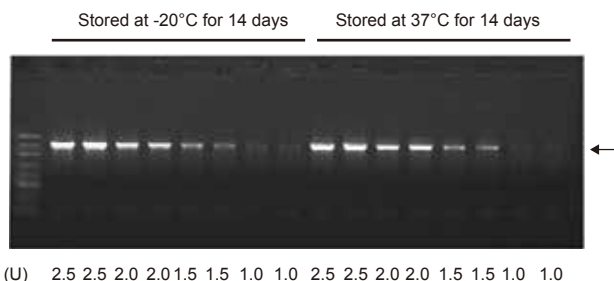


Figure 4: A 2-kb 23S rRNA fragment from from *E. coli* genomic DNA was amplified using Green *Taq* DNA polymerase (E00043-1000) stored at -20°C and 37°C, respectively.