SuperAdd Taq DNA Polymerase

Research Use Only

Product Code

19101X

Component

1. SuperAdd Taq DNA Polymerase (5.0 U/ µl) 1,000 units, 200 µl
2. 10x Reaction Buffer (without Mg) 1.0 ml x 2 tubes
3. 25mM $MgCl_2$ 1.0 ml x 2 tubes

Storage Condition

Store at -20℃

Description

SuperAdd Taq DNA Polymerase is a high-performance PCR DNA Polymerase designed to obtain PCR products in case of over 5kb as well as under 10kb of DNA amplified products (Long PCR). SuperAdd Taq DNA Polymerase contains the two enzymes blend of Add Taq DNA Polymerase and a small amount of highly proofreading enzyme.

Storage Buffer

20mM Tris-HCl (pH 8.0), 100mM KCl, 3mM $MgCl_2$, 1mM DTT, 0.1% Nonidet P-40, 0.1% Tween® 20 and 50% (v/v) glycerol

10X Reaction Buffer

100mM Tris-HCl (pH8.8), 500mM KCl, 1% Triton® X-100 and 20mM $MgCl_2$

Storage and Stability

SuperAdd Taq DNA Polymerase is stable for 2 years when stored in a constant temperature freezer at less than -20℃.

Made in KOREA This product was manufactured through ISO 9001 & 13485 system.

Nucleic Acid Amplification Protocol

1. Add the following components to a thin-walled PCR tube:

Nuclease-Free Water	x µl
10x Reaction Buffer	2 µl
10mM dNTP Mixture	2 µl
Forward primer (10µM)	0.25~2 µl
Reverse primer (10µM)	0.25~2 µl
DNA template	x µl
SuperAdd Taq DNA Polymerase (5 U/µl)	0.2 µl
Total reaction volume	20 µl

* Recommendation for template DNA concentration in a 20 µl reaction volume
  1) Human genomic DNA: 0.1 ng ~ 1 µg
  2) Bacterial genomic DNA: 0.1 ng ~ 100 ng
  3) Plasmid DNA: 0.01 ng ~ 5 ng

2. PCR cycling

Initial Denaturation	95℃, 5 min
PCR Cycling (25 – 40 cycles)	95℃, 15 – 30 sec
	55 - 65℃, 15 – 30sec
	72℃, 30 sec per kb of product length
Final Extension	72℃, 5 min
Hold	12℃, ∞

Note: For PCR products longer than 3~4kb, use an extension time of approximately 1min per kb DNA.

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