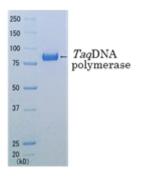


## Taq DNA Polymerase with Standard Buffer (+ dNTPs)

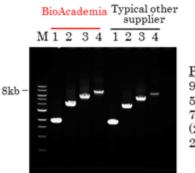
Description   quantities and highly purified. The enzyme has thermostable DNA polymerase activity and the MW is 94 kDa. This enzyme is suitable for PCR reactions: capable of amplifying DN with various primers.     Definition of activity   One unit is defined as the amount of enzyme that can incorporate 10nmols of total dNTF activity     Purity   Greater than 95% purity as determined by SDS-PAGE (CBB staining) (Fig.1)     The absence of endonucleases and exonucleases was confirmed.     PCR Test   Good amplification result was obtained in PCR reaction using λDNA as a template (Fig.2)     Components   Taq DNA polymerse (6Uµl): 20 mM Tris-HCI (pH 8.0), 100 mM KCl, 01 mM EDTA, 1 mil DTT, 50% glycerol, 0.5% Tween20, 0.5% Igepal CA-630 (02-Taq 40µl)     10 x Standard Buffer (Taq): 100 mM Tris-HCI (pH 8.3), 500 mM KCl, 15 mM MgCl <sub>2</sub> (02-Ts 1.0ml)   2.5 mM (each) dNTPs (02-Dnt 640 µl)     Application   1. High-throughput PCR   2. Colony PCR     3. Incorporation of dUTP; dITP, and fluorescence-labeled nucleotides   4. Primer extension     5. Addition of a single nucleotide (adenosine) at the 3"-blunt ends   General composition of PCR reaction mixture (total 50µl)     Tag DNA polymerase (5 Uµl) (02-Taq)   5 µl   2.5mM (each) dNTPs (02-Dnt)   4 µl     Tag DNA polymerase (5 Uµl) (02-Taq)   5 µl   2.5mM (each) dNTPs (02-Dnt)   4 µl     Tag DNA polymerase (5 Uµl) (02-Taq)   5 µl   2.5mM (each) dNTPs (02-Dnt) <th></th> <th></th>		
Storage   -20°C     Concentration   5 U/μl     Product   Thermus aquaticus DNA polymerase (Taq DNA polymerase) was expressed in <i>E. coli</i> in larg quantities and highly purified. The enzyme has thermostable DNA polymerase activity an the MW is 94 kDa. This enzyme is suitable for PCR reactions: capable of amplifying DN with various primers.     Definition of activity   One unit is defined as the amount of enzyme that can incorporate 10nmols of total dNTF into an acid-insoluble material in 30 minutes at 74°C when activated salmon sperm DNA we used as template / primer.     Purity   Creater than 95% purity as determined by SDS-PAGE (CBB staining) (Fig.1) The absence of endonucleases and exonucleases was confirmed.     PCR Test   Good amplification result was obtained in PCR reaction using λDNA as a template (Fig.2)     Components   Tag DNA polymeres (5U/µ): 20 mM Tris-HCl (pH 8.0), 100 mM KCl, 0.1 mM EDTA, 1 ml DTT, 50% glycerol, 0.5% Tween20, 0.5% Igepal CA-630 (02-Taq 40µl)     10 x Standard Buffer (Tag): 100 mM Tris-HCl (pH 8.3), 500 mM KCl, 15 mM MgCl <sub>2</sub> (02-Ts 1.0ml)   2.5 mM (each) dNTPs (02-Dnt 640 µl)     Application   1. High-throughput PCR   2. Colony PCR     3. Incorporation of dUTP, dITP, and fluorescence-labeled nucleotides   4. Primer extension     5. Addition of a single nucleotide (adenosine) at the 3'-blunt ends   General composition of PCR reaction mixture (total 50µl)     Tag DNA polymerase (5U/µl) (02-Taq)   \$0.25 µl   100 x Standard Buffer (Tag) (02-Taq)	Product code	02-001 200 U 02-001-5 200 U x 5
Concentration   5 U/µl     Product   Thermus aquaticus DNA polymerase (Taq DNA polymerase) was expressed in E. cdl in larg quantities and highly purified. The enzyme has thermostable DNA polymerase activity an the MW is 94 kDa. This enzyme is suitable for PCR reactions; capable of amplifying DN with various primers.     Definition of active and the active actin active actence active active active acton active acti	Size	200 U
Product Description   Thermus aquaticus DNA polymerase (Taq DNA polymerase) was expressed in <i>E. coli</i> in larg quantities and highly purified. The enzyme has thermostable DNA polymerase activity an the MW is 94 kDa. This enzyme is suitable for PCR reactions: capable of amplifying DN with various primers.     Definition of activity   One unit is defined as the amount of enzyme that can incorporate 10nmols of total dNTF into an acid-insoluble material in 30 minutes at 74°C when activated salmon sperm DNA wa used as tomplate / primer.     Purity   Greater than 95% purity as determined by SDS-PAGE (CBB staining) (Fig.1) The absence of endonucleases and exonucleases was confirmed.     PCR Test   Good amplification result was obtained in PCR reaction using ADNA as a template (Fig.2)     Components   Taq DNA polymerse (5U/µ): 20 mM Tris-HCl (pH 8.0), 100 mM KCl, 0.1 mM EDTA, 1 mi DTT, 50% glycerol, 0.5% Igopal CA-630 (02-Taq 40µl)     10 x Standard Buffer (Taq): 100 mM Tris-HCl (pH 8.3), 500 mM KCl, 15 mM MgCl <sub>2</sub> (02-Ts 1.0ml)   2.5 mM (acb) dNTPs     2.5 mM (acb) dNTPs   (02-Dat 640 µl)     Application   1. High-throughput PCR 2. Colony PCR 3. Incorporation of UTP; dITP, and fluorescence-labeled nucleotides 4. Primer extension 5. Addition of a single nucleotide (adenosine) at the 3'-blunt ends General composition of PCR reaction mixture (total 50µl) Tag DNA polymerase (5 U/µl) (02-Taq) %:02.50 µl 10.5 Standard Buffer (Taq) 0.2-1.0 mM (final conc.) Primer 1 0.2-1.0 mM (final conc.) Sterife distilled water up to 50 µl 1 %: Use of excess amou	Storage	-20°C
Description   quantities and highly purified. The enzyme has thermostable DNA polymerase activity and the MW is 94 kDa. This enzyme is suitable for PCR reactions: capable of amplifying DN with various primers.     Definition of activity   One unit is defined as the amount of enzyme that can incorporate 10nmols of total dNTF activity     Purity   One unit is defined as the amount of enzyme that can incorporate 10nmols of total dNTF activity     Purity   Greater than 95% purity as determined by SDS-PAGE (CBB staining) (Fig.1)     The absence of endonucleases and exonucleases was confirmed.     PCR Test   Good amplification result was obtained in PCR reaction using 2DNA as a template (Fig.2)     Components   Taq DNA polymerse (6Uµl): 20 mM Tris-HC1 (pH 8.0), 100 mM KC1, 01 mM EDTA, 1 mJ DTT, 50% glycerol, 0.5% Tween20, 0.5% Igepal CA-630 (02-Thq 40µl)     10 x Standard Buffer (Tag): 100 mM Tris-HC1 (pH 8.3), 500 mM KC1, 15 mM MgC1 <sub>2</sub> (02-Th 1.0ml)     2.5 mM (each) dNTPs (02-Dnt 640 µl)     Application     1. High-throughput PCR     2. Colony PCR     3. Incorporation of dUTP, dITP, and fluorescence-labeled nucleotides     4. Primer extension     5. Addition of a single nucleotide (adenosine) at the 3'-blunt ends     General composition of PCR reaction mixture (total 50µl)     TAg DNA polymerase (5 Uµl) (02-Thaq)   5 µl     2.5 mM (each) dNTPs (02-Dnt)   4 µl <tr< th=""><th>Concentration</th><th>5 U/µl</th></tr<>	Concentration	5 U/µl
the MW is 94 kDa. This enzyme is suitable for PCR reactions: capable of amplifying DN with various primers.Definition of activityOne unit is defined as the amount of enzyme that can incorporate 10nmols of total dNTF into an acid-insoluble material in 30 minutes at 74°C when activated salmon sperm DNA we used as template / primer.PurityGreater than 95% purity as determined by SDS-PAGE (CBB staining) (Fig.1) The absence of endonucleases and exonucleases was confirmed.PCR TestGood amplification result was obtained in PCR reaction using $\lambda$ DNA as a template (Fig.2)ComponentsTaq DNA polymerse (6U/µl): 20 mM Tris-HCl (pH 8.0), 100 mM KCl, 0.1 mM EDTA, 1 ml DTT, 50% glycerol, 0.5% Tween20, 0.5% Igepal CA-630 (02-Taq 40µl) 10 x Standard Buffer (Taq): 100 mM Tris-HCl (pH 8.3), 500 mM KCl, 15 mM MgCl <sub>2</sub> (02-Ts 1.0ml) 2.5 mM (each) dNTPs (02-Dnt 640 µl)Application1. High-throughput PCR 2. Colony PCR 3. Incorporation of dUTP, dITP, and fluorescence-labeled nucleotides 4. Primer extension 5. Addition of a single nucleotide (adenosine) at the 3'-blunt ends Generat composition of PCR reaction mixture (total 50µl) TAg DNA polymerase (5 Uµl) (02-Taq) $\approx 0.25 \mu l$ 2.5 mM (each) dNTPs (02-Dnt) 4 µl Template $<500$ ng Primer 1 0.2-1.0 mM (final cone.) Sterile distilled water up to 50 µl it Use of excess amount is not recommended.Related product02-011 Taq DNA polymerase with Standard Buffer (+dNTPs) 02-021 Pfu DNA polymerase with Standard Buffer (+dNTPs)Please note: All prot-true tare FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC	Product	Thermus aquaticus DNA polymerase (Taq DNA polymerase) was expressed in E. coli in large
initial set is a set in the set is a set in the set is a set in the set is a	Description	quantities and highly purified. The enzyme has thermostable DNA polymerase activity and
Definition of activityOne unit is defined as the amount of enzyme that can incorporate 10nmols of total dNTT into an acid-insoluble material in 30 minutes at 74°C when activated salmon sperm DNA way used as template / primer.PurityGreater than 95% purity as determined by SDS-PAGE (CBB staining) (Fig.1) The absence of endonucleases and exonucleases was confirmed.PCR TestGood amplification result was obtained in PCR reaction using $\lambda$ DNA as a template (Fig.2)ComponentsTaq DNA polymerse (6U/µl): 20 mM Tris-HCl (pH 8.0), 100 mM KCl, 0.1 mM EDTA, 1 mJ DTT, 50% glycerol, 0.5% Tween20, 0.5% Igepal CA-630 (02-Taq 40µl) 10 x Standard Buffer (Taq): 100 mM Tris-HCl (pH 8.3), 500 mM KCl, 15 mM MgCl2 (02-Ts 		the MW is 94 kDa. This enzyme is suitable for PCR reactions; capable of amplifying DNA
activity   into an acid-insoluble material in 30 minutes at 74°C when activated salmon sperm DNA war used as template / primer.     Purity   Greater than 95% purity as determined by SDS-PAGE (CBB staining) (Fig.1) The absence of endonucleases and exonucleases was confirmed.     PCR Test   Good amplification result was obtained in PCR reaction using $\lambda$ DNA as a template (Fig.2)     Components   Taq DNA polymerse (5U/µ): 20 mM Tris-HCl (pH 8.0), 100 mM KCl, 0.1 mM EDTA, 1 ml DTT, 50% glycerol, 0.5% Tween20, 0.5% Igepal CA-630 (02°Taq 40µl) 10 x Standard Buffer (Taq): 100 mM Tris-HCl (pH 8.3), 500 mM KCl, 15 mM MgCl <sub>2</sub> (02°Ts 1.0ml)     2.5 mM (each) dNTPs   (02°Dnt 640 µl)     Application   1. High-throughput PCR     2. Colony PCR   3. Incorporation of dUTP, dITP, and fluorescence-labeled nucleotides     4. Primer extension   5. Addition of a single nucleotide (adenosine) at the 3°-blunt ends     General composition of PCR reaction mixture (total 50µl) Trag DNA polymerase (5 U/µl) (02°Taq) ±0.25 µl 10 x Standard Buffer (Taq) (02°Tsd) 5 µl 2.5 mM (each) dNTPs (02°Dn) 4 µl Template <500 ng Primer 1 0.2~10 mM (final conc.) Sterile distilled water up to 50 µl 3: Use of excess amount is not recommended.     Related product   02°011 Taq DNA polymerase with Standard Buffer ('dNTPs)     02-021 Pfu DNA polymerase with Standard Buffer ('dNTPs)     02-021 Pfu DNA polymerase with Standard Buffer ('dNTPs)     Please note: All protter   FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC		with various primers.
used as template / primer.     Purity   Greater than 95% purity as determined by SDS-PAGE (CBB staining) (Fig.1) The absence of endonucleases and exonucleases was confirmed.     PCR Test   Good amplification result was obtained in PCR reaction using λDNA as a template (Fig.2)     Components   Taq DNA polymerse (5U/µl): 20 mM Tris-HCl (pH 8.0), 100 mM KCl, 0.1 mM EDTA, 1 mL DTT, 50% glycerol, 0.5% Tween20, 0.5% Igepal CA-630 (02-Taq 40µl)     10 x Standard Buffer (Taq): 100 mM Tris-HCl (pH 8.3), 500 mM KCl, 15 mM MgCl <sub>2</sub> (02-Tst 1.0ml)     2.5 mM (each) dNTPs (02-Dnt 640 µl)     Application     1. High-throughput PCR     2. Colony PCR     3. Incorporation of dUTP, dITP, and fluorescence-labeled nucleotides     4. Primer extension     5. Addition of a single nucleotide (adenosine) at the 3'blunt ends     General composition of PCR reaction mixture (total 50µl) Taq DNA polymerase (5 U/µl) (02-Taq) % 0.25 µl 0.5 standard Buffer (Taq) (002-Taq) % 0.25 µl 10 standard Buffer (Taq) (02-Taq) % 0.25 µl 10 standard Buffer (100 (02-Taq) § 0.25 µl 2.5 mM (each) dNTPs (02-Dnt) 4 µl Template     Primer 1   0.2~1.0 mM (final conc.) Primer 2     Primer 2   0.2~1.0 mM (final conc.) Primer 2     Vlae of excess amount is no	Definition of	One unit is defined as the amount of enzyme that can incorporate 10nmols of total dNTPs
Purity   Greater than 95% purity as determined by SDS-PAGE (CBB staining) (Fig. 1) The absence of endonucleases and exonucleases was confirmed.     PCR Test   Good amplification result was obtained in PCR reaction using λDNA as a template (Fig.2)     Components   Taq DNA polymerse (5U/µl): 20 mM Tris-HCl (pH 8.0), 100 mM KCl, 0.1 mM EDTA, 1 ml DTT, 50% glycerol, 0.5% Tween20, 0.5% Igepal CA-630 (02-Taq 40µl)     10 x Standard Buffer (Taq): 100 mM Tris-HCl (pH 8.3), 500 mM KCl, 15 mM MgCl <sub>2</sub> (02-Ts 1.0ml)   2.5 mM (each) dNTPs (02-Dnt 640 µl)     Application   1. High-throughput PCR   2. Colony PCR     3. Incorporation of dUTP, dITP, and fluorescence-labeled nucleotides   4. Primer extension     5. Addition of a single nucleotide (adenosine) at the 3'blunt ends   General composition of PCR reaction mixture (total 50µl) T3q DNA polymerase (5 U/µl) (02'Taq) 32.5 µl 2.5mM (each) dNTPs (02-Dnt) 4 µl Template   5 µl 2.5mM (each) dNTPs (02-Dnt) 4 µl Template     Was Standard Buffer (Taq) (02'Taq)   5 µl 2.5mM (each) dNTPs (02-Dnt) 4 µl Template   5 µl 2.5mM (each) dNTPs (02-Dnt) 4 µl Template     Was of excess amount is not recommended.   92-011 Taq DNA polymerase with Standard Buffer ('dNTPs)     02-021 Pfu DNA polymerase with Standard Buffer ('dNTPs)   02-021 Pfu DNA polymerase with Standard Buffer ('dNTPs)     Please note: All product   C201 RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC	activity	into an acid-insoluble material in 30 minutes at $74^{\circ}$ C when activated salmon sperm DNA was
The absence of endonucleases and exonucleases was confirmed.PCR TestGood amplification result was obtained in PCR reaction using \DNA as a template (Fig.2)ComponentsTaq DNA polymerse (5U/µ): 20 mM Tris-HCl (pH 8.0), 100 mM KCl, 0.1 mM EDTA, 1 ml DTT, 50% glycerol, 0.5% Tween20, 0.5% Tgepal CA-630 (02-Taq 40µl) 10 x Standard Buffer (Taq): 100 mM Tris-HCl (pH 8.3), 500 mM KCl, 15 mM MgCl <sub>2</sub> (02-Ts 1.0ml)Application1. High-throughput PCR 2. Colony PCR 3. Incorporation of dUTP, dITP, and fluorescence-labeled nucleotides 4. Primer extension 5. Addition of a single nucleotide (adenosine) at the 3'-blunt endsGeneral composition of PCR reaction mixture (total 50µl) Tag DNA polymerase (5 U/µl) (02-Taq) \$02-25 µl 10x Standard Buffer (Taq) (02-Tsd) \$5 µl 2.5mM (each) dNTPS (02-Dnt) 4 µl Template <5000 ng Primer 1 0.2-1.0 mM (final cone.) Primer 1 0.2-1.0 mM (final cone.) Sterile distilled water up to 50 µl x: Use of excess amount is not recommended.Related product02-011 Taq DNA polymerase with Standard Buffer (-dNTPs) 02-021 Pfu DNA polymerase with Standard Buffer (+dNTPs)Please note: All prot-trad are FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC		used as template / primer.
PCR TestGood amplification result was obtained in PCR reaction using $\lambda$ DNA as a template (Fig.2)ComponentsTaq DNA polymerse (5U/µ): 20 mM Tris-HCl (pH 8.0), 100 mM KCl, 0.1 mM EDTA, 1 ml DTT, 50% glycerol, 0.5% Tween20, 0.5% Igepal CA-630 (02-Taq 40µl) 10 x Standard Buffer (Taq): 100 mM Tris-HCl (pH 8.3), 500 mM KCl, 15 mM MgCl <sub>2</sub> (02-Ts 1.0ml)Application1. High-throughput PCR 2. Colony PCR 3. Incorporation of dUTP, dITP, and fluorescence-labeled nucleotides 4. Primer extension 5. Addition of a single nucleotide (adenosine) at the 3'-blunt endsGeneral composition of PCR reaction mixture (total 50µl) Taq DNA polymerase (5 U/µl) (02'Taq) 2.5mM (each) dNTPs (02-Dnt 640 µl)Related product02-011 Taq DNA polymerase with Standard Buffer ('dNTPs) 02-021 Pfu DNA polymerase with Standard Buffer ('dNTPs)Please note: All protucts are FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC	Purity	Greater than 95% purity as determined by SDS-PAGE (CBB staining) (Fig.1)
Components   Taq DNA polymerse (5U/µl): 20 mM Tris-HCl (pH 8.0), 100 mM KCl, 0.1 mM EDTA, 1 ml DTT, 50% glycerol, 0.5% Tween20, 0.5% Igepal CA-630 (02-Taq 40µl)     10 x Standard Buffer (Taq): 100 mM Tris-HCl (pH 8.3), 500 mM KCl, 15 mM MgCl <sub>2</sub> (02-Ts 1.0ml)     2.5 mM (each) dNTPs (02-Dnt 640 µl)     Application     1. High-throughput PCR     2. Colony PCR     3. Incorporation of dUTP, dITP, and fluorescence-labeled nucleotides     4. Primer extension     5. Addition of a single nucleotide (adenosine) at the 3'-blunt ends     General composition of PCR reaction mixture (total 50µl)     7/2 DNA polymerase (5 U/µl) (02'Taq)     %0.25 µl     10x Standard Buffer (Taq) (02-Tsq)     %0.25 µl     10x Standard Buffer (Taq) (02-Tsq)     %0.26 µl     10x Standard Buffer (Taq) (02-Taq)     %0.26 µl     10x Standard Buffer (Taq) (02-Taq)     %0.26 µl     10x Standard Buffer (Taq) (02-Taq)     %10 mM (final cone.)     Primer 1   0.2~1.0 mM (final cone.)     Sterile distilled water   up to 50 µl     ix Use of excess amount is not recommended.     Related product     02-011 Taq DNA polymerase with Standard Buffer ('dNTPs)     02-021 Pfu DNA polymeras		The absence of endonucleases and exonucleases was confirmed.
DTT, 50% glycerol, 0.5% Tween20, 0.5% Igepal CA-630 (02-Taq 40µl)     10 x Standard Buffer (Taq): 100 mM Tris-HCl (pH 8.3), 500 mM KCl, 15 mM MgCl <sub>2</sub> (02-Ts 1.0ml)     2.5 mM (each) dNTPs (02-Dnt 640 µl)     Application     1. High-throughput PCR     2. Colony PCR     3. Incorporation of dUTP, dITP, and fluorescence-labeled nucleotides     4. Primer extension     5. Addition of a single nucleotide (adenosine) at the 3'-blunt ends     General composition of PCR reaction mixture (total 50µl)     Tag DNA polymerase (5 U/µl) (02-Taq) %0.25 µl     10x Standard Buffer (Taq) (02-Tsd) 5 µl     10x Standard Buffer (Taq) (02-Taq) 4 µl     Template   <500 ng     Primer 1   0.2~1.0 mM (final conc.)     Sterile distilled water   up to 50 µl     i: Use of excess amount is not recommended.     Please note: All product     Please note: All product ser FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC	PCR Test	Good amplification result was obtained in PCR reaction using $\lambda$ DNA as a template (Fig.2)
10 x Standard Buffer (Taq): 100 mM Tris-HCl (pH 8.3), 500 mM KCl, 15 mM MgCl <sub>2</sub> (02-Ts 1.0ml)     2.5 mM (each) dNTPs (02-Dnt 640 µl)     Application     1. High-throughput PCR     2. Colony PCR     3. Incorporation of dUTP, dITP, and fluorescence-labeled nucleotides     4. Primer extension     5. Addition of a single nucleotide (adenosine) at the 3'-blunt ends     General composition of PCR reaction mixture (total 50µl) 7aq DNA polymerase (5 U/µl) (02-Taq) **0.25 µl 10x Standard Buffer (Taq) (02-Tsd) 5 µl 2.5mM (each) dNTPs (02-Dnt) 4 µl Template     Primer 1   0.2~1.0 mM (final conc.) Primer 2     Primer 2   0.2~1.0 mM (final conc.) Sterile distilled water     W Use of excess amount is not recommended.     Related product   02-011 Taq DNA polymerase with Standard Buffer (-dNTPs) 02-021 Pfu DNA polymerase with Standard Buffer (+dNTPs)     D2-021 Pfu DNA polymerase with Standard Buffer (+dNTPs)     D2-021 Pfu DNA polymerase with Standard Buffer (+dNTPs)	Components	Taq DNA polymerse (5U/µl): 20 mM Tris-HCl (pH 8.0), 100 mM KCl, 0.1 mM EDTA, 1 mM
1.0ml)2.5 mM (each) dNTPs (02-Dnt 640 μl)Application1. High-throughput PCR2. Colony PCR3. Incorporation of dUTP, dITP, and fluorescence-labeled nucleotides4. Primer extension5. Addition of a single nucleotide (adenosine) at the 3'-blunt endsGeneral composition of PCR reaction mixture (total 50µl) Taq DNA polymerase (5 U/µl) (02-Taq) **0.25 µl 10X standard Buffer (Taq) (02-Tsd) 5 µl 2.5mM (each) dNTPs (02-Dnt) 4 µl Template <500 ng Primer 1 0.2~1.0 mM (final conc.) Sterile distilled water up to 50 µl ** Use of excess amount is not recommended.Related product02-011 Taq DNA polymerase with Standard Buffer (-dNTPs) 02-021 Pfu DNA polymerase with Standard Buffer (+dNTPs)Please note: All protects are FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC		DTT, 50% glycerol, 0.5% Tween20, 0.5% Igepal CA-630 (02-Taq 40µl)
Image: set of the set of th		<b>10 x Standard Buffer (Taq)</b> : 100 mM Tris-HCl (pH 8.3), 500 mM KCl, 15 mM MgCl <sub>2</sub> (02-Tsd
Application   1. High-throughput PCR     2. Colony PCR   3. Incorporation of dUTP, dITP, and fluorescence-labeled nucleotides     4. Primer extension   5. Addition of a single nucleotide (adenosine) at the 3'-blunt ends     General composition of PCR reaction mixture (total 50µl)   Taq DNA polymerase (5 U/µl) (02-Taq) ×0.25 µl     10x Standard Buffer (Taq) (02-Tsd)   5 µl     2.5mM (each) dNTPs (02-Dnt)   4 µl     Template   <500 ng     Primer 1   0.2~1.0 mM (final conc.)     Primer 2   0.2~1.0 mM (final conc.)     Sterile distilled water   up to 50 µl     * Use of excess amount is not recommended.     Related product   02-011 Taq DNA polymerase with Standard Buffer (+dNTPs)     02-021 Pfu DNA polymerase with Standard Buffer (+dNTPs)     Please note: All protucts are FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC		1.0ml)
2. Colony PCR     3. Incorporation of dUTP, dITP, and fluorescence-labeled nucleotides     4. Primer extension     5. Addition of a single nucleotide (adenosine) at the 3'-blunt ends     General composition of PCR reaction mixture (total 50µl) Taq DNA polymerase (5 U/µl) (02'Taq) ※0.25 µl 10x Standard Buffer (Taq) (02'Tsd) 5 µl 2.5mM (each) dNTPs (02'Dnt) 4 µl Template <500 ng Primer 1 0.2~1.0 mM (final conc.) Primer 2 0.2~1.0 mM (final conc.) Sterile distilled water up to 50 µl ※ Use of excess amount is not recommended.     Related product   02-011 Taq DNA polymerase with Standard Buffer ('dNTPs) 02-021 Pfu DNA polymerase with Standard Buffer ('dNTPs)     02-021 Pfu DNA polymerase with Standard Buffer ('dNTPs)     02-021 Pfu DNA polymerase with Standard Buffer ('dNTPs)     Please note: All products are FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC		<b>2.5 mM (each) dNTPs</b> (02-Dnt 640 µl)
3. Incorporation of dUTP, dITP, and fluorescence-labeled nucleotides4. Primer extension5. Addition of a single nucleotide (adenosine) at the 3'-blunt endsGeneral composition of PCR reaction mixture (total 50µl) Taq DNA polymerase (5 U/µl) (02-Taq) *0.25 µl 10x Standard Buffer (Taq) (02-Tsd) 5 µl 2.5mM (each) dNTPs (02-Dnt) 4 µl Template <500 ng Primer 1 0.2~1.0 mM (final conc.) Primer 2 0.2~1.0 mM (final conc.) Sterile distilled water up to 50 µl * Use of excess amount is not recommended.Related product02-011 Taq DNA polymerase with Standard Buffer (-dNTPs) 02-021 Pfu DNA polymerase with Standard Buffer (+dNTPs)D2-011 Taq DNA polymerase with Standard Buffer (+dNTP	Application	1. High-throughput PCR
4. Primer extension5. Addition of a single nucleotide (adenosine) at the 3'-blunt endsGeneral composition of PCR reaction mixture (total 50µl) Taq DNA polymerase (5 U/µl) (02-Taq) %0.25 µl 10x Standard Buffer (Taq) (02'Tsd) 5 µl 2.5mM (each) dNTPs (02-Dnt) 4 µl Template <500 ng Primer 1 0.2~1.0 mM (final conc.) Primer 2 0.2~1.0 mM (final conc.) Sterile distilled water up to 50 µl i % Use of excess amount is not recommended.Please note: All product02-011 Taq DNA polymerase with Standard Buffer (-dNTPs) 02-021 Pfu DNA polymerase with Standard Buffer (+dNTPs)Please note: All protects are FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC		2. Colony PCR
5. Addition of a single nucleotide (adenosine) at the 3'-blunt endsGeneral composition of PCR reaction mixture (total 50µl) Taq DNA polymerase (5 U/µl) (02-Taq) *:0.25 µl 1.0x Standard Buffer (Taq) (02-Tsd) 5 µl 2.5mM (each) dNTPs (02-Dnt) 4 µl Template Template<500 ng Primer 10.2~1.0 mM (final conc.) Primer 20.2~1.0 mM (final conc.) Sterile distilled water up to 50 µl *: Use of excess amount is not recommended.Related product02-011 Taq DNA polymerase with Standard Buffer (-dNTPs) 02-021 Pfu DNA polymerase with Standard Buffer (+dNTPs)Please note: All protects are FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC		3. Incorporation of dUTP, dITP, and fluorescence-labeled nucleotides
General composition of PCR reaction mixture (total 50µl) Taq DNA polymerase (5 U/µl) (02 Taq)  \$0.25 µl 10x Standard Buffer (Taq) (02 Tsd)  5 µl 2.5mM (each) dNTPs (02 Dnt)  4 µl Template  <500 ng Primer 1  0.2~1.0 mM (final conc.) Primer 2  0.2~1.0 mM (final conc.) Sterile distilled water  up to 50 µl * Use of excess amount is not recommended.Related product02-011 Taq DNA polymerase with Standard Buffer (-dNTPs) 02-021 Pfu DNA polymerase with Standard Buffer (+dNTPs)Please note: All protects are FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC		4. Primer extension
Taq DNA polymerase (5 U/µl) (02·Taq) **0.25 µl10x Standard Buffer (Taq) (02·Tsd) 5 µl2.5mM (each) dNTPs (02·Dnt) 4 µlTemplate <500 ngPrimer 10.2~1.0 mM (final conc.)Primer 20.2~1.0 mM (final conc.)Sterile distilled water up to 50 µl* Use of excess amount is not recommended.Related product02-011 Taq DNA polymerase with Standard Buffer (-dNTPs)02-021 Pfu DNA polymerase with Standard Buffer (+dNTPs)Please note: All products are FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC		5. Addition of a single nucleotide (adenosine) at the 3'-blunt ends
02-021 Pfu DNA polymerase with Standard Buffer (+dNTPs)     Please note: All products are FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC		$\overline{Taq}$ DNA polymerase (5 U/µl) (02·Taq) $(0.25 µl)$ 10x Standard Buffer (Taq) (02·Tsd) 5 µl2.5mM (each) dNTPs (02·Dnt) 4 µlTemplate<500 ngPrimer 10.2~1.0 mM (final conc.)Primer 20.2~1.0 mM (final conc.)Sterile distilled waterup to 50 µl
Please note: All products are FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC	Related product	02-011 Taq DNA polymerase with Standard Buffer (-dNTPs)
		02-021 Pfu DNA polymerase with Standard Buffer (+dNTPs)
PROCEDURES NOT FOR MILITARY USF	Please note: All prod	lucts are FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC
PROCEDURES. NOT FOR MILITARY USE.		



## Data Images: 02-001 Taq DNA Polymerase with Standard Buffer (+ dNTPs)



## Fig.1 SDS-PAGE of TaqDNA polymerase



 $\begin{array}{c} \underline{PCR \ condition} \\ 98^{\circ}C \ 10 \text{sec} \\ 57^{\circ}C \ 30 \text{sec} \\ 72^{\circ}C \ 8 \text{min} \end{array} \right\} 25 \text{cycles} \\ (2 \text{min in the case of} \\ 2 \text{kb DNA}) \end{array}$ 

Fig.2 Amplification of  $\lambda$ DNA