

*n*Taq-Pure HOT

Cat.#	Size	Conc.
P725P	250 units	5 units/µl
P750P	500 units	5 units/µl

Store at -20°C

Supplied with: 10X nTag-HOT Buffer dNTP Mixture(2 mM each) Sterile water

India Contact:

Life Technologies (India) Pvt. Ltd. 306, Aggarwal City Mall, Opposite M2K Pitampura, Delhi - 110034 (INDIA). Ph: +91-11-42208000, 42208111, 42208222 Mobile: +91-9810521400 Fax: +91-11-42208444 Email: customerservice@lifetechindia.com Web: www.lifetechindia.com

Product description

nTaq-Pure HOT is a highly purified polymerase especially for PCR reactions where freedom from bacterial genomic DNA is essential, nTag-Pure HOT is a hot start PCR polymerase which remains inactive at temperatures lower than 75°C. Nonspecific elongation of incorrectly annealed primers before initiation of PCR reaction is one major cause of non-specific DNA amplification. For this reason, amplification of nonspecific bands can be effectively prevented by using *n*Tag-Pure HOT, thus increasing the specificity of target DNA amplification. In addition, nTag-Pure HOT was purified by state of the art technology for minimizing the E, coli genomic DNA contamination, PCR product was not detected after 40 cycles of amplification using E. coli 165 RNA primer.

Characteristics

 Absolutely free from E. coli genomic DNA contamination - Molecular weight: 94 kDa - Error rate: 2.4 X 10-5

- Thermal stability: Half life of 40 min at 95°C
- A-tail formation at 3' ends of amplified duplex DNA

- No activity at temperatures lower than 75°C. Heating up to 95°C results in activation of enzyme

For Research Use Only, Not for use in diagnostic procedures,

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remains inactive at temperatures lower than 75°C. Nonspecific

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minimizing the E. coli genomic DNA contamination, PCR

ISO9001 ISO14001 ISO13485

Quality control

- Purity: >99% on SDS-PAGE
- Endonuclease-free
- Exonuclease-free
- RNase-free
- Inhibitor-free

Applications

- High specific amplification of DNA fragments shorter than 3 kb

- Amplification of cDNA and genomic DNA.
- Amplification of template DNA with secondary or higher
- ordered structure that is resistant to PCR amplification
- Well-suited for an automated PCR machines, for which PCR reaction mixtures are prepared at room temperature - Primer extension
- Multiplex PCR

Cautions

When nTag-Pure HOT DNA is used, initial denaturation of 10 min is required to ensure effective activation of the enzyme.



Your Molecular & Cell Technology Partner

Standard PCR conditions

PCR mixture	
10X <i>n</i> Taq-HOT Buffer	2 µl
<i>n</i> Taq- Pure HOT ^a (5 units/µl)	0.2 µl
dNTP Mixture (2 mM each)	2 µl
Template DNA ^b (0.1~500 ng/µl)	1 µl
Primer 1 (5 pmole/µl)	1 µl
Primer 2 (5 pmole/µl)	1 µl
Sterile water	up to 20 µl
^a Add the PCR polymerase at the final step	
^b Plasmid DNA, 0.1 ng~30 ng; genomic DNA,	50 ng~500 ng

PCR cvcle

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Initial denaturation ^a	95°C	10 min
Denaturation	95°C	30 sec
Annealing ^b	55°~65°C	30~60 sec
Elongation	72℃	1 min/kb
Number of cycles	25~35 times	
Final elongation	72℃	5 min

When cycles are over, keep the reaction mixture at 4°C; may add 10 mM EDTA until use to prevent DNA degradation.

^aAt least 10 min of initial denaturation time is required to

fully activate the chemically modified PCR DNA polymerase ^bRecommended annealing temperatures is 5 to 10℃ below the lower Tm of the two primers used.



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E. coli 165 RNA primer.

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