

5X PCR Enhancer

Date: 2012.08

Version: 12-01

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|----------------------|-------------------|
| Cat # : PT-PCREN-1ML | Size : 1ML |
| PT-PCREN-5ML | Size : 5ML |
| SA-PCREN | Size : 50 μ L |

Product Description:

The 5X PCR Enhancer is designed as an additive that to improve the specificity and yield of PCR amplification reactions. In some cases, **especially when template contains a high GC content, strong secondary structure or repeat codons is difficult to amplify**. 5X PCR Enhancer is an effective solution which may enable an amplification that had previously failed.

Optimization of 5X PCR Enhancer:

- For plasmid templates: add 10 μ L of 5X PCR Enhancer to 50 μ L reaction.
- For genomic templates and templates: add 10 μ L of 5X PCR Enhancer to 50 μ L reaction.
- For higher GC-rich region or very strong secondary structure template: add 12.5 μ L of 5X PCR Enhancer to 50 μ L reaction.

Components: Store at -20 °C (without a defrost cycle)

General Protocol:

Set up as follows:

Reaction Mix Preparation Table

| Component | Volume |
|----------------------------------|---------------------------|
| 10X PCR buffer | 5 μ L |
| 10 μ M forward primer | 1 μ L |
| 10 μ M reverse primer | 1 μ L |
| 10mM dNTP | 1 μ L |
| Taq DNA polymerase (5U/ μ L) | 1 μ L |
| 5X PCR Enhancer | 10 μ L – 12.5 μ L |
| Template DNA | X μ L |
| Sterile H ₂ O | Up to 50 μ L |

*X is variable depend on user's condition.

Suggested PCR Program

| Stage | Temperature | Time |
|------------------|-------------|-------------------|
| Initial denature | 94-95°C | 1-5 min |
| Denature | 94-95°C | 15-30 sec |
| Annealing | 55-60°C | 5-15 sec |
| Extension | | |
| | 72°C | 1 min per kb |
| Final extension | 72°C | 5-10 min |
| Preservation | 4-10°C | 20 min - ∞ |

- For experimental sample, please test for your own cycle conditions.
- 5X PCR Enhancer is suitable for conventional PCR.
- The 5X PCR Enhancer is stored at -20°C for at least 1 year.

Research Use Only

Please do not hesitate to contact us while you have any questions.

Manufactured for and distributed by Protech Technology Enterprise Co.,Ltd

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