Ver. 1902-00

HelixAmp™ Ready-2x-Go [*Premium-Pfu*] (8-Strip type)

Kit Contents

HelixAmp™ Ready-2x-Go [*Premium-Pfu*] (8-Strip type)	
Cat. No.	**PMT009-96**
Ready-2x-Go [Premium-Pfu] (without Dye)	8-strip x 12/plate
Blue Box	-
Instruction for Use	1ea

Description

HelixAmp™ Ready-2x-Go [*Premium-Pfu*] are optimized mixtures of HelixAmp™ *Premium-Pfu* polymerase with reaction buffer and dNTPs as 2-fold concentration. This pre-mixed formulation is designed to save time and reduce the error and contamination opportunities. Ready-2x-Go [*Premium-Pfu*] mixture contains **NanoHelix's *Premium-Pfu* polymerase**, which most suitable to faithful amplification of relatively long-ranged target for cloning etc. Due to its high speed, fast PCR with this enzyme could be completed in 30 min for the reliable amplification of less than 1 kb size target DNA. Ready-2x-Go [*Premium-Pfu*] provides the most suitable condition for efficient and reproducible PCR.

Contents

HelixAmp™ Ready-2x-Go [*Premium-Pfu*] are the mixtures of HelixAmp™ *Premium-Pfu* polymerase, PCR buffer, dNTPs and stabilizing agents. For the optimization of difficult PCR, N-Solution™ is separately provided.

Store

-20℃

Quality Control Assay

Functional Assay

HelixAmp™ Ready-2x-Go [*Premium-Pfu*] is evaluated by amplification compare with mixture of each component required in PCR for various targets.

Quality authorized by Yountaek Go

NanoHelix Co., Ltd.

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Protocol

1. **Recommended amount of template DNA.**

   Human genomic DNA : 10 ~ 100 ng

   Bacterial genomic DNA : 5 ~ 50 ng

   Purified plasmid or phage DNA : 1 ~ 5 ng

2. **Prepare the PCR Pre-Mix tubes according to the number of test sample.**

3. **Add following components to each tube containing 15 µl of HelixAmp™ Ready-2x-Go [*Premium-Pfu*] Premix.**

Components	Volumes (µl)
Template	**X µl**
Forward Primer (10 pmoles/µl)	**1 µl**
Reverse Primer (10 pmoles/µl)	**1 µl**
N-Solution™ [optional] ※	**0 ~ 3 µl**

※ **N-Solution™** is an additive altering the binding behavior of primer and template and can help the amplification that do not work well under standard PCR condition. Especially, **N-Solution™** can be used for the amplification of problematic template, such as high G+C content and repeat sequence regions. The optimal concentrations of **N-Solution™** are vary upon the primer-template sets and should be set by adding into the PCR reaction mixture from 2 to 10% volume. Most of the PCR reactions are not required the **N-Solution™** and we recommend to use the **N-Solution™** only in case of the PCR amplification is not works well or too much non-specific products are observed.

4. **Adjust reaction volume to final 30 µl with RNase-free water and mix well.**

5. **Perform the PCR with following condition.**

Temperature & time	Cycles
95℃, 2 min	**x 1**
95℃, 20 sec	**x 25 ~ 40**
Annealing Temp., 40 sec	
72℃, 30 sec/kb (Expected size of product)	
72℃, 5 min	**x 1**

Annealing Temp. = T_m – (4 ~ 6℃)

T_m (Melting Temp.) = [4℃ x (G + C)] + [2℃ x (A + T)]

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Products

Cat. No.	Products	Size
PMT009-96	HelixAmp™ Ready-2x-Go [*Premium-Pfu*] (8-Strip tube type, **without dye**)	96 tests

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