

HelixAmp™ Ready-2x-Go [*Hot-Taq*] (8-Strip type)

Contents

HelixAmp™ Ready-2x-Go [*Hot-Taq*] (96 tests ; 8 strip x 12/plate)

Description

HelixAmp™ Ready-2x-Go [*Hot-Taq*] are optimized mixtures of HelixAmp *Hot-Taq* DNA polymerase (Chemically-modified hot start form) 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. For the optimization of PCR, 5x TuneUp Solution is separately provided. HelixAmp™ Ready-2x-Go [*Hot-Taq*] provides the most suitable condition for efficient and reproducible PCR.

Store -20°C

Quality Control Assay

Functional Assay

HelixAmp™ Ready-2x-Go [*Hot-Taq*] is evaluated by amplification using the 10-fold serial-diluted human genomic DNA and a set of human gene-specific primer.

Quality authorized by Yountaek Go



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

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2. Prepare the PCR Pre-Mix tubes according to the number of test sample.
3. Mix following components in each PCR tube containing 15 μl of HelixAmp™ Ready-2x-Go [*Hot-Taq*] Premix.

Components	Volumes (μl)
Template	X μl
Forward Primer (10 pmoles/ μl)	1 μl
Reverse Primer (10 pmoles/ μl)	1 μl
5x TuneUp™ solution [optional]	0 ~ 12 μl

※ **TuneUp™ 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, TuneUp™ Solution can be used for the amplification of problematic template, such as high G+C content and repeat sequence regions. TuneUp™ Solution uses as adding into PCR reaction mixture from 0.5x to 2x.

4. Adjust reaction volume to final 30 μl with distilled water and mix well.
5. Perform the PCR with following condition.

Temperature & time	Cycles
95°C, 15 min	x 1
95°C, 20 sec	} x 25 ~ 40
Annealing Temp., 40 sec	
Extension (72°C), 1 min/kb	
72°C, 5 min	x 1

$$\text{Annealing Temp.} = T_m - (6 \sim 8^\circ\text{C})$$

$$T_m (\text{Melting Temp.}) = [4^\circ\text{C} \times (\text{G} + \text{C})] + [2^\circ\text{C} \times (\text{A} + \text{T})]$$

Products

Cat. No.	Products	Size
PMT002-96	HelixAmp™ Ready-2x-Go [<i>Hot-Taq</i>] (8-Strip tube type, without dye)	96 tests
PMT002-480	HelixAmp™ Ready-2x-Go [<i>Hot-Taq</i>] (8-Strip tube type, without dye)	480 tests
PMDT002-96	HelixAmp™ Ready-2x-Go [<i>Hot-Taq</i>] (8-Strip tube type, with dye)	96 tests
PMDT002-480	HelixAmp™ Ready-2x-Go [<i>Hot-Taq</i>] (8-Strip tube type, with dye)	480 tests

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