HelixAmp™ Ready-2x-Go [*Premium-Taq*]

Kit Contents

HelixAmp™ Ready-2x-Go [*Premium-Taq*]		
Cat. No.	**PM007L**	**PMD007L**
Packing size	1ml x 5ea	1ml x 5ea
Ready-2x-Go [*Premium-Taq*]	without dye	with dye
N-Solution™	1ml	1ml
Instructions for Use	1ea	1ea

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

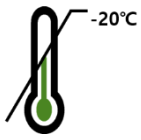
Description

HelixAmp™ Ready-2x-Go [*Premium-Taq*] are optimized mixtures of HelixAmp™ *Premium-Taq* 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. HelixAmp™ Ready-2x-Go [*Premium-Taq*] mixture contains NanoHelix's *Premium-Taq* Polymerase, which is an anti-*Taq* antibody complex form and ideal for automatic hot-start PCR. HelixAmp™ Ready-2x-Go [*Premium-Taq*] provides the most suitable condition for efficient and reproducible PCR.

Store

Store the products containing dye below -20℃ and keep away from light during storage.

Storage



Store below -20℃

Shelf life

12 months

Quality control

By NanoHelix's ISO 13485-certified Quality Management System, each lot of **HelixAmp™ Ready-2x-Go [*Premium-Taq*]** was tested against predetermined specifications to ensure consistent product quality.

NanoHelix Co., Ltd.

F711-1(Rev.0)

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Protocol

1. Recommended amount of template DNA.

Human genomic DNA : 10 ~ 100ng

Bacterial genomic DNA : 5 ~ 50ng

Purified plasmid or phage DNA : 1 ~ 5ng

2. Mix following components in a PCR tube.

Components	Volumes (µl)
Template	X µl
Forward Primer (10µM)	2µl
Reverse Primer (10µM)	2µl
N-Solution™ [optional]	0 ~ 5µl
Ready-2x-Go [*Premium-Taq*]	25µl
RNase-free Water	to 50µl

※ **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.

3. PCR condition.

Temperature & time	Cycles
95℃, 2 min	x 1
95℃, 20 sec	x 25 ~ 40
Annealing Temp., 40 sec	
72℃, 1 min/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)]

Precautions

Store the product containing dye in a place protected from light, as prolonged exposure to light may degrade its performance.

Products

Cat. No.	Products	Size
PM007L	HelixAmp™ Ready-2x-Go [*Premium-Taq*], N-Solution™	1ml x 5ea
PMD007L	HelixAmp™ Ready-2x-Go [*Premium-Taq*] (**with dye**), N-Solution™	1ml x 5ea

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