

HelixAmp™ Ready-2x-Go Series (8-strip tube type)

HelixAmp™ Ready-2x-Go Series (96rxns ; 8-strip x 12/plate)

Description

HelixAmp™ Ready-2x-Go Series are optimized mixtures of a PCR enzyme 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. Depending on the purpose of PCR, HelixAmp™ Ready-2x-Go mixture is selectable from routine PCR to high fidelity and long PCR. HelixAmp™ Ready-2x-Go Series provides the most suitable condition for efficient and reproducible PCR.

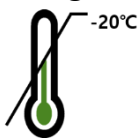
Contents

HelixAmp™ Ready-2x-Go Series are the mixtures of one of thermostable DNA polymerase, PCR buffer, dNTPs and stabilizing agents. For the optimization of PCR, 5x TuneUp™ solution is separately provided.

Store

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

Storage



Store below -20°C

Shelf life



12 months

Quality Control

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

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

3. Mix following components in each PCR tube containing 15µl of HelixAmp™ Ready-2x-Go Series Premix.

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

※ **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 30µl with RNase-free Water and mix well.

5. Perform the PCR with following condition.

Temperature & time	Cycles
95°C, 2 min or 15 min ^(a)	x 1
95°C, 20 sec	x 25 ~ 40
Annealing Temp., 40 sec	
Extension (72°C) ^(b)	
72°C, 5 min	x 1

^(a) In case of HelixAmp™ Ready-2x-Go [*Hot-Taq*]

^(b) Extension time according to expected size of product

- *Taq*, *Taq-Plus*, *Hot-Taq* Polymerase : 1 min/kb

- *Power-Pfu* Polymerase : 2 min/kb

Ready-2x-Go Series (8-strip tube type)

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

Taq, Taq-Plus, Power-Pfu : Annealing Temp. = $T_m - (4 \sim 6^\circ\text{C})$

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

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
PMT001-96	HelixAmp™ Ready-2x-Go [<i>Taq</i>] (8-strip tube type)	96rxns
PMT001-480	HelixAmp™ Ready-2x-Go [<i>Taq</i>] (8-strip tube type)	480rxns
PMT002-96	HelixAmp™ Ready-2x-Go [<i>Hot-Taq</i>] (8-strip tube type)	96rxns
PMT002-480	HelixAmp™ Ready-2x-Go [<i>Hot-Taq</i>] (8-strip tube type)	480rxns
PMT006-96	HelixAmp™ Ready-2x-Go [<i>Power-Pfu</i>] (8-strip tube type)	96rxns
PMT006-480	HelixAmp™ Ready-2x-Go [<i>Power-Pfu</i>] (8-strip tube type)	480rxns
PMT008-96	HelixAmp™ Ready-2x-Go [<i>Taq-Plus</i>] (8-strip tube type)	96rxns
PMT008-480	HelixAmp™ Ready-2x-Go [<i>Taq-Plus</i>] (8-strip tube type)	480rxns
PMDT001-96	HelixAmp™ Ready-2x-Go [<i>Taq</i>] (8-strip tube type, with Dye)	96rxns
PMDT001-480	HelixAmp™ Ready-2x-Go [<i>Taq</i>] (8-strip tube type, with Dye)	480rxns
PMDT002-96	HelixAmp™ Ready-2x-Go [<i>Hot-Taq</i>] (8-strip tube type, with Dye)	96rxns
PMDT002-480	HelixAmp™ Ready-2x-Go [<i>Hot-Taq</i>] (8-strip tube type, with Dye)	480rxns
PMDT006-96	HelixAmp™ Ready-2x-Go [<i>Power-Pfu</i>] (8-strip tube type, with Dye)	96rxns
PMDT006-480	HelixAmp™ Ready-2x-Go [<i>Power-Pfu</i>] (8-strip tube type, with Dye)	480rxns
PMDT008-96	HelixAmp™ Ready-2x-Go [<i>Taq-Plus</i>] (8-strip tube type, with Dye)	96rxns
PMDT008-480	HelixAmp™ Ready-2x-Go [<i>Taq-Plus</i>] (8-strip tube type, with Dye)	480rxns