

SciPhi™ qPCR Master Mix (2x)

SYBR Green Master Mix for Real-Time PCR Experiments

#NXG444

Contents and storage

Cat. No.	Product Description	Volume	Storage
NXG444	qPCR Master Mix (2x)	5ml	2°C - 8°C

Product Description

SciPhi™ qPCR Master Mix (2x) is optimized, universal 2X master mix for real-time PCR workflows. SciPhi™ qPCR Master Mix (2x) is designed to amplify targets with dual hot-start mechanism for excellent specificity and accurate gene expression analysis.

Features

- Highly reproducible CTs over a broad dynamic range.
- Inclusion of UDG to help prevent carryover contamination.
- ROX™ dye Passive Reference
- Stability of pre-assembled reactions for up to 72 hours.
- Compatibility with most real-time qPCR instruments.

Instruction for use

1. Prepare the appropriate number of reactions, plus 10% overage.

Component	Volume (10 µL/well)	Volume (20 µL/well)
SciPhi™ qPCR Master Mix (2x)	5 µL	10 µL
Forward and reverse primers*	Variable	Variable
cDNA/gDNA template#	Variable	Variable
Nuclease-Free Water	Variable	Variable
Total	10 µL	20 µL

*Use 300-800 nM of each primer for optimal performance.

#Use 1-10 ng single-stranded cDNA or 10-100 ng gDNA per reaction.

2. Mix the components thoroughly, then centrifuge briefly to spin down the contents and eliminate any air bubbles.
3. Transfer the appropriate volume of each reaction to each well of an optical plate.
4. Seal the plate with an optical adhesive cover, then centrifuge briefly to spin down the contents and eliminate any air bubbles (Note: PCR can be performed on the reaction plate up to 24 hours after completing the set-up, when stored at room temperature).
5. Place the reaction plate in the real-time PCR instrument.
6. Set appropriate standardized reaction conditions.
7. Start the run.

Guidelines for preventing contamination of PCR reaction

- Prepare DNA sample, set up the PCR mixture, perform thermal cycling and analyse PCR products in separate areas.
- Set up PCR mixtures in a laminar flow cabinet equipped with an UV lamp.
- Use reagent containers dedicated for PCR and fresh gloves for DNA purification and reaction set up.
- Use pipette tips with aerosol filters to prepare DNA samples and perform PCR set up in dedicated area.
- It is recommended to always use “no template control” (NTC) reactions to check for contamination. NTC reactions contain all reaction components (SciPhi™ qPCR Master Mix, primers, water) except sample, and therefore should not return a Ct value.

Troubleshooting

For troubleshooting please email us at info@nextgenlife.com.

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