SciPhi™

SciPhiTM 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 excellent specificity mechanism for accurate gene expression analysis.

Features

- Highly reproducible CTs over a broad dynamic range.
- Inclusion of UDG to help prevent carryover contamination.
- ROXTM 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.

- 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.
- 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 setup, when stored at room temperature).
- 5. Place the reaction plate in the real-time PCR instrument.
- standardized 6. Set appropriate reaction conditions.
- 7. Start the run.

Guidelines for preventing contamination of PCR reaction

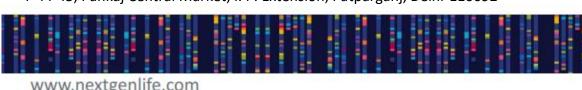
- Prepare DNA sample, set up the PCR mixture, perform thermal cycling and analyse PCR products in separate areas.
- Set up PCR mixtures in a laminar flow cabinet equipped with an UV lamp.
- Use reagent containers dedicated for PCR and fresh gloves for DNA purification and reaction
- Use pipette tips with aerosol filters to prepare DNA samples and perform PCR set up in dedicated area.
- It is recommended to always use "no template (NTC) control" reactions to check 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 at info@nextgenlife.com.

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^{*}Use 1-10 ng single-stranded cDNA or 10-100 ng gDNA per reaction.