



*Just fine Molecular Biology*

## SiBirOX Master Mix (2x)

**Cat.-No.: 119450 (Rox 1  $\mu$ M) 100 rcs (delivered in 2 x 1.25 ml)**

### Description

SiBirOX Master Mixes of Bioron are optimised ready-to-use mixes for the amplification and detection of DNA in real-time quantitative PCR (qPCR) on instruments that support normalization with ROX reference dye. They contain all the components necessary to perform quantitative PCR, with the exception of template and primers. ROX reference dye is included in the SiBirOX Master Mixes to normalize the fluorescent signal on instruments that are compatible with this option. The 2X SiBirOX Master Mix contains an optimal ratio of active SiBir I dye and SuperHOTaq polymerase of Bioron supplied in a proprietary reaction buffer that enables detection of low copy number targets.

### Features

- High sensitivity & specificity
- SuperHOTaq DNA Polymerase of Bioron included (Taq Polymerase with antibodies versus Taq polymerase)
- Optimised buffer containing active SiBir-I
- ROX Reference Dye (1  $\mu$ M) is included to normalize the fluorescent signal on instruments that are compatible with this option.

Instrument	Final ROX Conc.
ABI 7000, 7300, 7700, 7900HT	500 nM
ABI 7500; Stratagene Mx3000, MX3005P, Mx4000	50 nM

### Applications

Real-Time qPCR assays  
End point analysis

### Components and Storage condition

SiBirOX Master Mix (2x) 2 x 1.25ml for 100 rcs in 50  $\mu$ l or 200 rcs in 25  $\mu$ l  
MgCl<sub>2</sub> (100mM) 1ml  
Store at -20°C. Protect from light. Avoid repeated freeze/thawing. Shipped on blue-ice.

### Ordering Information

Catalog #	Description	Pack size
119450	SiBirOX Master Mix (Final ROX conc. 500nM)	2 x 1.25 ml for 100 rcs
119405	SiBirOX Master Mix (Final ROX conc. 50nM)	2 x 1.25 ml for 100 rcs

### Bioron International

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### Protocol for PCR with SiBirOX Master Mix

Due to the inhibition of polymerase activity at room temperature by Anti Taq DNA polymerase antibodies all reactions may be settled-up at room temperature, it will not result in increase of unspecific product or primer-dimers formation.

Add in a thin walled PCR tube:

50µl reaction volume			25µl reaction volume	
Component	Volume	Final concentration	Volume	Final concentration
2X PCR Master Mix	25µl	1X	12.5µl	1X
Forward Primer	variable	0.1-1µM	variable	0.1-1µM
Reverse Primer	variable	0.1-1µM	variable	0.1-1µM
Template DNA	variable	10pg-1µg	variable	10pg-1µg
Sterile Deionized Water	up to 50µl	-	up to 25µl	-

- Gently vortex the sample and briefly centrifuge to collect all drops to the bottom of the tube.
- Overlay the sample with mineral oil or add an appropriate amount of wax if the thermal cycler is not equipped with a heated lid.
- Place the samples in a thermocycler and start a PCR program

Real-time PCR amplification is done on ABI@PRISM 7700, iQ5 Real Time PCR System (BioRad) or other appropriate machines for Real-time PCR suitable for use of intercalating dye chemistry. All samples are run in triplicate with the appropriate single PCR controls (no template, no primers). Always prepare 2 Master Mixes for gene of interest and control gene to be sure in experiment-to-experiment consistency.

### Real-Time Cycler Conditions

step	time	temperature
initial denaturation	5 minutes	95°C
40 cycles		
denaturation	15 seconds	95°C
annealing	1 minute	60°C

Version FH06.01.09

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