



Just fine Molecular Biology

SiBir-Master Mix (2x)

Cat.-No.: 119205 100 rcs (delivered in 2 x 1.25 ml)

Description

SiBir-Master Mixes of Bioron are optimised for SYBR-Green I assays and contain all the components necessary to perform quantitative PCR, with the exception of template and primers. The 2X qPCR SiBir-Master Mix contains an optimal ratio of active SYBR-Green 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
- Contain SuperHOTaq DNA Polymerase of Bioron (Taq Polymerase with antibodies versus Taq DNA Polymerase)
- Optimised buffer containing active SYBR-Green I
- Reproducibility for all applications

Applications

SYBR-Green I Real-Time qPCR assays
PCR with End point analysis

Components and storage condition

SiBir-Master Mix (2x) 2 x 1.25ml for 100 rcs of 50 µl or 200 rcs of 25 µl
MgCl₂ (100mM) 1ml

Store at -20°C in a constant temperature freezer. Protect from light. Avoid repeated freeze/thawing. Shipped on blue-ice.

Performance and purity tests

Tested for the absence of endodeoxyribonucleases and exodeoxyribonucleases.

The SiBir-Master Mix is tested in the amplification of a single-copy gene of mouse genomic DNA.

Endodeoxyribonuclease Assay: No detectable conversion of covalently closed circular DNA to nicked DNA was observed after incubation of 25µl of 2x SuperHot PCR Master Mix with 1µg of pUC19 DNA in 50µl for 4 hours neither at 37°C nor at 70°C

Ordering Information

Catalog #	Description	Pack size
119205	Sibir-Master Mix	2 x 1.25ml for 100 rcs
119225	Sibir-Master Mix	10 x 1.25ml for 500 rcs

Bioron International

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Protocol for PCR with SiBir-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

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