

# SensiFAST™ Lyo-Ready No-ROX Mix

Shipping: On dry/blue ice Catalog numbers

BIO-11060: 10,000 x 20 µL reactions: 10 x 10 mL

Batch No.: See vial

Concentration: See vial



A Meridian Life Science® Company

Store at -20 °C

## Storage and stability:

SensiFAST Lyo-Ready No-ROX Mix is shipped on dry/blue ice. All kit components should be stored at -20°C upon receipt. Excessive freeze/thawing is not recommended.

## Expiry:

When stored under the recommended conditions and handled correctly, full activity of the kit is retained until the expiry date on the outer box label.

## Quality Control:

Bioline operates under ISO 13485 Management System. The SensiFAST Lyo-Ready No-ROX Mix and its components are extensively tested for activity, processivity, efficiency, heat activation, sensitivity, absence of nuclease contamination and absence of nucleic acid contamination.

## Safety Precautions:

Please refer to the material safety data sheet for further information.

## Notes:

This reagent has been manufactured in accordance with a 13485 Quality Management System. This reagent is suitable for further manufacturing use as an IVD component.

## Description

SensiFAST™ Lyo-Ready No-ROX Mix is a glycerol-free qPCR mix containing Taq polymerase, reaction buffer, dNTP, MgCl<sub>2</sub> and lyo-exipients. SensiFAST Lyo-Ready No-ROX Mix is optimized for fast, multiplex amplification of high- and low-copy targets.

In order to produce room temperature lyophilized qPCR reagents, assay specific primers and probes are added to SensiFAST Lyo-Ready No-ROX Mix for subsequent lyophilization. Millisecond rehydration times make SensiFAST Lyo-Ready No-ROX Mix ideal for automated, high-throughput systems.

## Kit components

Table 1

Reagent	10,000 x 20 µL reactions
SensiFAST Lyo-Ready No-ROX Mix (2x)	10 x 10 mL

## Instrument compatibility

SensiFAST Lyo-Ready No-ROX Mix is compatible with qPCR instruments that do not need a passive reference signal for normalization of the data. SensiFAST Lyo-Ready No-ROX Mix has been optimized for use on the qPCR instruments listed in Table 2.

Table 2

Manufacturer	Model
Bio-Rad	iCycler®, iQ™5, MyiQ™, Opticon™, Opticon2™, MiniOpticon, Chromo4™, CFX96, CFX384
BMS	Mic
Cepheid	SmartCycler™
Eppendorf	Mastercycler® ep realplex
Qiagen	Rotor-Gene™ 3000 & 6000
Roche	LightCycler® 480
Takara	Thermal Cycler Dice® (TP800)
Techne	Quantica®

## Pre-lyophilization master mix preparation guidelines

Prepare a master mix of SensiFAST Lyo-Ready No-ROX Mix (2x) and assay-specific primers and probes (see recommended composition in Table 3). Dispense into reaction vials and immediately transfer into a freeze-dryer and run suitable drying cycle.

## Trademark and Licensing Information:

SensiFAST™ (Bioline Reagents Ltd), SYBR® (Molecular Probes), ROX™, iCycler™ MyiQ5™, Opticon™, Chromo4™, MiniOpticon™ (BioRad), LightCycler® (Roche), SteStepOne™ (ABI), SmartCycler™ (Cepheid), RotorGene™ (Corbett), RealPlex™ (Eppendorf), Quantica™ (Techne), MX4000 (Stratagene).

Table 3

Reagent	Volume	Final concentration
2x SensiFAST Lyo-Ready No-ROX Mix	10 µL	1x
20 µM Forward Primer	0.4 µL	400 nM
20 µM Reverse Primer	0.4 µL	400 nM
10 µM Probe	0.2 µL	100 nM
<b>Pre-Lyophilization Master Mix Volume</b>	<b>≤20 µL*</b>	

\*Ensure that the pre-lyophilization master mix volume does not exceed the final reaction volume

For long-term storage at ambient temperature, the lyophilized qPCR master mix should be contained in a controlled, moisture-free environment.

## qPCR mix setup guidelines

Rehydrate the lyophilized qPCR master mix in the reaction vials with 20 µL template-containing solution and run qPCR.

The qPCR conditions in Table 4 are suitable for SensiFAST Lyo-Ready No-ROX Mix with amplicons of up to 200 bp. These cycling parameters have been optimized on a number of platforms, however they can be varied to suit different machine-specific protocols.

Table 4

Cycles	Temperature	Time	Notes
1	95 °C	2 min	Polymerase activation
40	95 °C	10 s	Denaturation
	60 °C	30 s	Annealing/extension (acquire at end of step)

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