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 BIO-11061: 500 x 20 μL reactions: 5 mL

Concentration: See vial

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

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:

For research or further manufacturing use only.

Trademarks:

SensiFAST (Bioline Reagents Ltd), SYBR (Molecular Probes), ROX, iCycler MyiQ5, Opticon, Chromo4, Miniopticon (BloRad), LightCycler (Roche), StepOne (ABI), SmartCycler (Cepheid), RotorGene (Qiagen), RealPlex (Eppendorf), Quantica (Techne), MX4000 (Stratagene)

Description

SensiFAST™ Lyo-Ready No-ROX Mix is a glycerol-free qPCR mix containing Taq polymerase, reaction buffer, dNTP, MgCl₂ and lyo-excipients. 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 Reactions	500 Reactions
SensiFAST Lyo-Ready No-ROX Mix (2x)	10 x 10 mL	5 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.

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 [®]	

Table 2 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.

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
Pre-Lyophilization Master Mix Volume	≤20 µL*	

*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, moisturefree environment.

qPCR mix setup quidelines

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 machinespecific 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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