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

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.

Trademarks:
SensiFAST™ is a trademark of Bioline Reagents Ltd

Description

SensiFAST™ Lyo-Ready No-ROX Mix is a glycerol-free qPCR mix containing Taq polymerase, reaction buffer, dNTP, $MgCl_2$ and lyo-excipients. SensiFAST Lyo-Ready No-ROX Mix is optimized for fast, multiplex amplification of high- and low-copy targets.

SensiFAST Lyo-Ready No-ROX Mix together with assay-specific primers and probes can be lyophilized to produce ambient temperature stable qPCR master mixes. 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®

Lyo-PCR 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). Disperse 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	1.8x*
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

***Dilute to maximum 1.1x final concentration to ensure that freeze-dried solute volume does not exceed rehydration solution volume**

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

Lyo-PCR mix reaction setup guidelines

Rehydrate the lyophilised 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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