

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.

Description

SensiFAST™ Lyo-Ready No-ROX Mix is a glycerol-free qPCR mix containing Taq polymerase, reaction buffer, dNTP, MgCl₂ 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
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, 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)

Bioline Reagents Ltd
UNITED KINGDOM

Bioline USA Inc.
USA

Bioline GmbH
GERMANY

Bioline (Aust) Pty. Ltd
AUSTRALIA

Bioline France
FRANCE

Meridian Bioscience Asia Pte Ltd
SINGAPORE

Tel: +44 (0)20 8830 5300
Fax: +44 (0)20 8452 2822

Tel: +1 508 880 8990
Fax: +1 508 880 8993

Tel: +49 (0)337 168 1229
Fax: +49 (0)3371 68 1244

Tel: +61 (0)2 9209 4180
Fax: +61 (0)2 9209 4763

Tel: +33 (0)1 42 56 04 40
Fax: +33 (0)9 70 06 62 10

Tel: +65 6774 7196
Fax: +65 6774 6441