

qPCR Exogenous Control

Shipping: On dry/blue ice Catalog numbers

Batch : See vial BIO-11025: 100 Reactions

Batch No.: See vial

Concentration: See vial



Storage and stability:

qPCR Exogenous Control is shipped on dry/blue ice. DNA Exogenous Control and 50x Control Mix should be stored at +4 °C and -20 °C respectively. Excessive freeze/thawing is not recommended.

Expiry:

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

Quality Control:

qPCR Exogenous Control is extensively tested for quality and the absence of contamination.

Safety Precautions:

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

Notes:

For research or further manufacturing use only.

Description

qPCR Exogenous Control enables users of diagnostic assay to validate their DNA extraction step. qPCR Exogenous Control is "spiked" into the sample prior to DNA extraction.

Following DNA extraction, the reaction mix is added to the extracted DNA prior to amplification. All components required for amplification of sample DNA should also be added. Presence of internal control DNA confirms the success of the extraction step and reduces the chance of obtaining a false negative result in the sample DNA.

qPCR Exogenous Control should be used in conjunction with SensiPLUS No-ROX Mix and target specific primers and probe, for detection of bacterial DNA in human samples.

Components

Reagent	100 Reactions
DNA Exogenous Control	10 x 400 µL
50x Control Mix	1 x 100 µL

Recommended Protocol

All steps should be carried out at room temperature unless otherwise stated.

Extraction step

1. Thaw and brief spin down all tubes before opening.
2. Mix by inverting five times.
3. Add 40 µL of DNA exogenous control solution per sample to be extracted to the lysis buffer. For batch extraction, please ensure homogeneity of the lysis buffer/exogenous control mixture before loading onto samples for uniform result. The remaining internal control DNA solution can be stored at 4°C.
4. Follow the manufacturer's protocol for sample DNA extraction.

Post-extraction qPCR set-up

1. When using a 2x PCR master mix, the following conditions apply:

Component	Supplied	Volume
2x PCR master mix*	Yes	25 µL
50x Control Mix	Yes	1 µL
Target probe/primer mix	No	X µL
Sample DNA from extraction step	No	20 µL
Total Volume (for 1 reaction)		50 µL

*We recommend using SensiPLUS No-ROX Mix

2. Program amplification conditions as follows:

Cycles	Temperature	Duration	Notes
1	95 °C	10 min	Activation
50	95 °C	20 s	Denaturation
	65 °C	60 s	Annealing/extension [‡] (acquire at end of step)

[‡]Acquire DNA Exogenous Control fluorescence signal on the orange or ROX channel (Redmond Red™ emission wavelength = 595 nm)

Associated Products

Product	Pack size	Cat. No.
ISOLATE II Genomic DNA Kit	10 Preps	BIO-52065
ISOLATE II Plant DNA Kit	10 Preps	BIO-52068
SensiPLUS No-ROX Mix	100 reaction	BIO-11021

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