2X Magic SYBR Mix

for research use only

Description

2X Magic SYBR Mix is an allround-qPCR Mix for SYBR® Green-based detection optimized for a broad range of applications.

Features:

- HotStart for maximum control over the reaction start
- dUTP/dTTP blend to enable UNG digestion (eliminating contamination from PCR products)
- universal ROX concentration suitable for all PCR machines
- improved performance in the presence of PCR inhibitors.

Product	Size	SKU
2X Magic SYBR Mix	2 ml	TRAXSKU1107
	5 ml	TRAXSKU1108

Additional Materials Required

- Nuclease-free PCR tubes or plates and suitable sealing options
- Real-time PCR cycler
- PCR Primer
- Template DNA and control DNA standards
- Filter pipette tips
- Sterile, nuclease-free, DNA-free tubes for preparing the reaction mix
- *(Optional) Uracil-N Glycosylase (UNG)*

Storage

Store all components at -20°C and avoid repeated freeze and thaw cycles.

Reaction Setup

- Before starting the reaction setup, thaw *2X Magic SYBR Mix* and mix thoroughly but gently to ensure even distribution of components.
- *(Optional) Perform an UNG digestion according to the manufacturer's instructions.*
- Dilute your standard DNA and experimental samples with nuclease-free water to the desired concentrations and add them to their designated wells in the multi-well plate. For negative control, add nuclease-free water. Keep the plate on ice until further use.

Component	Volume	Final Concentration
2X Magic SYBR Mix	10 µl	1X
Template DNA	X µl	max. 2 µl
Forward primer (10 µM)	0.4 µl	0.05 – 0.9 µM each
Reverse primer (10 µM)	0.4 µl	0.05 – 0.9 µM each
Nuclease-free dH_2O	X µl	to 20 µl

Recommended qPCR Protocol

Step	Cycles	Temperature	Time
Initial Denaturation	1	95°C	5 minutes
Amplification	40	95°C	10 seconds
		55-60°C	15 seconds
		72°C	20 seconds
Final Elongation	1	72°C	2 minutes

Add an additional melt curve step if required. A melt curve is recommended to ensure you are observing specific amplification and to detect possible primer oligomers.

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