

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	PCCSKU1107
	5 ml	PCCSKU1108
	50 ml	PCCSKU1108B

ADDITIONAL MATERIALS REQUIRED

- Nuclease-free PCR tubes or plates and suitable sealing options
- Real-time PCR cyclers
- 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 -25 to -15°C protected from light 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 ₂ O	X µl	to 20 µl

STEP	CYCLES	TEMPERATURE	TIME
Initial Denaturation	1	95°C	5 minutes
		95°C	10 seconds
Amplification	40	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.