

## DESCRIPTION

2X Magic Probe Mix is an allround-qPCR Mix for probe-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 Probe Mix	2 ml	TRAXSKU1109
	5 ml	TRAXSKU1110

## 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 Probe 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 Probe 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
Probe (10 µM)	0.2 µl	0.1 µM each
Nuclease-free dH <sub>2</sub> O	X µl	to 20 µl

## RECOMMENDED qPCR PROTOCOL

STEP	CYCLES	TEMPERATURE	TIME
Initial Denaturation	1	95°C	5 minutes
Amplification	50	95°C	10 seconds
		57-60°C 	90 seconds