

TATAA GrandMaster Mix

Ready-to-use qPCR master mix

Introduction

The novel TATAA GrandMaster Mix is a 2x concentrated, ready-to-use fast mix containing all the necessary components for qPCR except primers and template. The TATAA GrandMaster Mix is available for both SYBR® and probe-based qPCR, with ROX or low ROX options.

Content

TATAA GrandMaster Mix (2x): 2x reaction buffer containing optimised concentrations of MgCl₂, dNTPs, hot-start DNA polymerase, blue qPCR dye, and stabilisers. The SYBR® option includes SYBR® Green I Dye.

Storage

Store the TATAA GrandMaster Mix at -20°C. It may be kept at +2°C to +8°C for up to 6 months. Repeated freeze-thaw cycles are not recommended.

Protocol

1. Thaw and mix thoroughly by gently vortexing and briefly centrifuge to collect content before use.
2. Add the components in the table for one reaction to a 0.2 ml thin-walled PCR tube or in a PCR plate.
3. Vortex gently and centrifuge to collect content.

Note: When preparing multiple reactions, making a cocktail with all components except template is recommended to reduce pipetting errors. Prepare a slightly larger amount of master mix than required to compensate for pipetting losses.

Component	1 rxn
TATAA Probe GrandMaster® Mix (2x)	10 µl
Nuclease-free water	variable
Forward primer	variable
Reverse primer	variable
Probe*	variable
Template	variable
Final volume	20 µl

* replace probe with nuclease-free water in SYBR® assays.

Cycling Protocol

2 step
95°C, 30 s* Pre-denaturation
95°C, 3-5 s Cycling
60°C, 30 s† Data collection

*Full activation of the DNA polymerase is achieved within ten seconds. Longer denaturation time may be needed to denature the template.

†The extension time is amplicon dependent and the data collection time is instrument dependent.