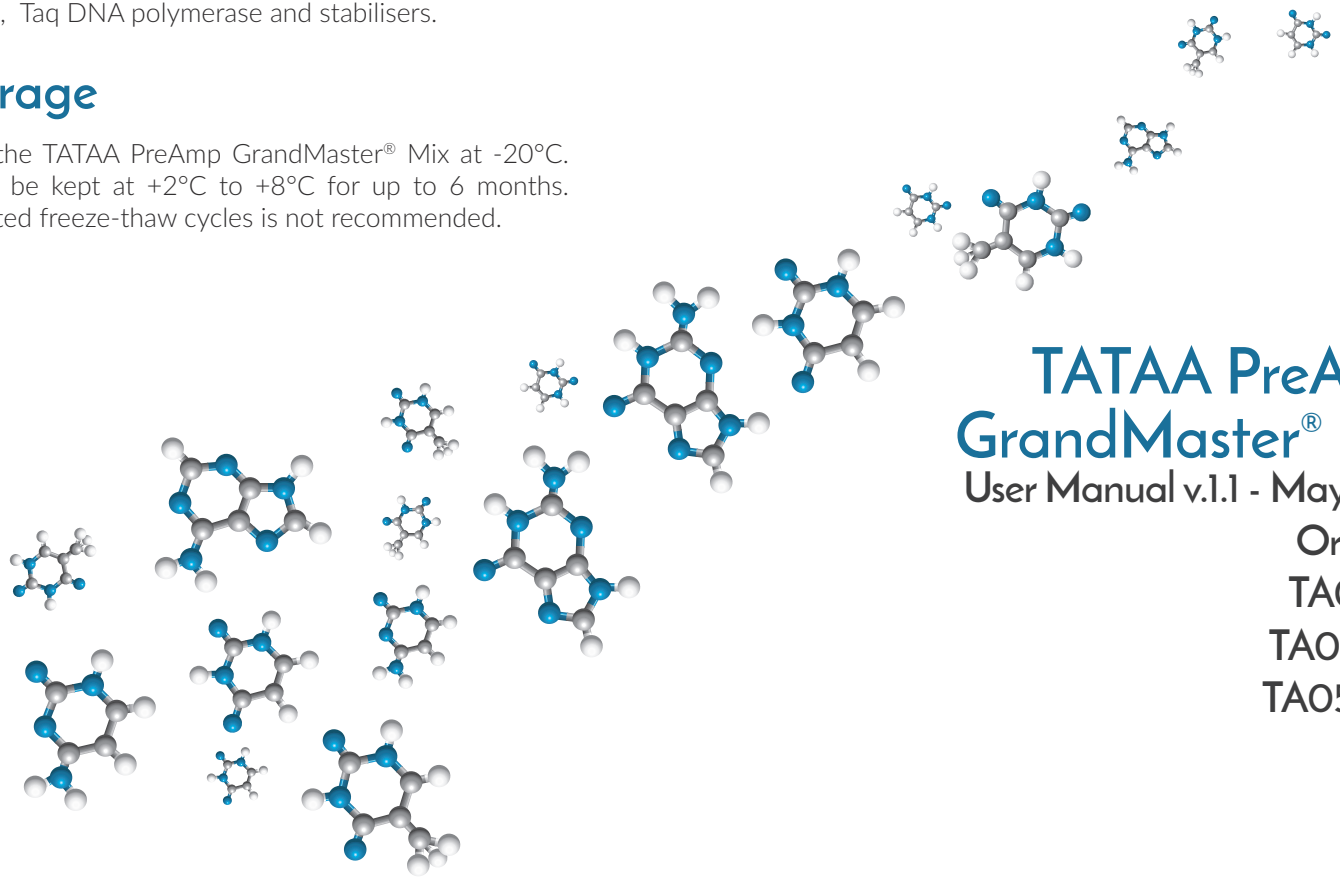
Content

TATAA PreAmp GrandMaster® Mix (2x): 2x reaction buffer containing optimised concentrations of $MgCl_2$, dNTPs, Taq DNA polymerase and stabilisers.

Storage

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

tataabiocenter



TATAA PreAmp GrandMaster® Mix

User Manual v.1.1 - May 2015

Order #:

TA05-50

TA05-100

TA05-500

Background

The TATAA PreAmp GrandMaster® Mix is a 2x concentrated ready-to-use mix which provides all the necessary components for PCR based preamplification, except primers and template. Please note that new preamplification setups need to be validated to verify correct performance of assays.

Protocol

1. Thaw and mix thoroughly by gently vortexing and briefly centrifuge to collect content before use.

2. Add the following for one reaction to a 0.2 ml thin-walled PCR tube or in a PCR plate.

		Final conc.
TATAA PreAmp GrandMaster® Mix	25.0 µl	1x
Nuclease free water	variable	
Forward primer	variable	50 nM*
Reverse primer	variable	50 nM*
Template (undiluted cDNA)	≤5 µl	≤10% (v/v)
Final volume	50.0 µl	

**The primer concentration can be optimised in the range of 25-50 nM, in the unlikely event of primer dimers in downstream qPCR.*
Note: *Preferably avoid adding probes. Assays including probes can be used, but makes the preamplification more complex than necessary.*

3. Vortex gently and centrifuge to collect content.

Note: When preparing preamplification 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.

Cycling Protocol

95°C, 60 s*	Pre-denaturation, 1x
95°C,15 s	Cycling, 12-18x†
60°C, 2 min	
72°C, 1 min	
Keep in 72°C until removed (≤ 5min) and snap freeze (dry ice)	
Dilute minimum 4x during thawing and mix well. Total dilution between preamp and qPCR should be minimum 40x.	

**Full activation of the Taq polymerase is achived within 30 seconds. Longer denaturation time may be needed to denature the template.*

†The number of cycles is dependent on the amount of starting material and the platform used for analysis. Conventional instruments (96/384/1536) usually require 12 cycles. High-throughput instruments (BioMark, OpenArray) up to 18 cycles.

Troubleshooting

If experiencing difficulties with this product, please contact the experts at TATAA technical support for help by email: info@tataa.com or phone: +46 31 761 57 00.

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