August 2023

Quick-Start Protocol

TaqNova Master Mix 2x

Taq Nova Master Mix 2x (cat. nos. RP85T and RP85T-10) is a 2X concentrated, ready-to-use PCR master mix which facilitates an easy and rapid PCR reaction setup. TaqNova Master Mix 2x solution contains a reaction buffer, magnesium chloride, dNTPs, and a thermostable Taq DNA polymerase. To set up the PCR reaction, the template, primer set, and water needs to be added to the master mix. TaqNova Master Mix 2x reduces the time required to set up PCR reactions and decreases the possibility of contamination, particularly when preparing large numbers of reactions. The master mix is supplemented with an inner dye and a density reagent, which allows for direct loading of PCR products to a gel. This product should be shipped in dry ice, and must be stored at –20°C. After thawing, the product will remain stable at +4°C for at least two months.

Things to do before starting

1. Thaw the master mix solution and other reagents completely, mix thoroughly, and spin briefly.
2. Add the following reaction reagents to a sterile nuclease-free PCR tube:

Reagent	Suggested amount per reaction	Acceptable final concentrations in reaction mixture
Taq Nova Master Mix 2x	25 µL	1x
10 µM Forward primer	1 µL	0.1–1 µM
10 µM Reverse primer	1 µL	0.1–1 µM
DNA template	1–100 ng	10 pg to 0.5 µg
PCR-grade water	Fill up to 50 µL	Fill up to 50 µL

This composition is intended for use as a guide only; conditions may vary from reaction to reaction and may require optimization.

Procedure

1. Mix the prepared reaction mixture thoroughly by pipetting or vortexing, then spin briefly.
2. Place the prepared PCR mixture in a thermal cycler and start the PCR reaction.
3. After the reaction is finished, apply the reaction mixtures directly onto a gel.

Document Revision History

Date	Changes
08/2023	Initial release

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