Ver: 1911

2 × Hot Start Taq PCR Mix

（BW-AT2201）

Contents

Kit Contents

Catalog#	BW-AT2201-00	BW-AT2201-01	BW-AT2201-02	BW-AT2201-03
Preps	20 Rxns	100 Rxns	250 Rxns	600 Rxns
2 × Hot Start Taq PCR Mix	0.5 mL	2 x 1.25 mL	5 x 1.25 mL	12 x 1.25 mL

Introduction

2 × Hot Start Taq PCR Mix is a ready-to-use and ready-to-load reaction cocktail for PCR amplification up to 4 kb. It's a 2× concentrated formulation that contains all necessary components including Taq DNA polymerase, anti-Taq antibodies, magnesium, dNTPs, glycerol, with the exceptions of primers and template. Sufficient reagents are provided for 100, 250 or 600 PCR amplification reactions of 50 µL reaction volume each.

2 × Hot Start Taq PCR Mix is an antibody based hot start system that allows for convenient room temperature reaction set-up and reduces PCR optimization effort and contamination risk.

Storage and Stability

From the date of production, 2 × Hot Start Taq PCR Mix is stable for 1 year when stored at -20℃. It may be stored at 4℃ to avoid the necessity of repeated thawing of the mix before assembling the PCR. No detectable reduction of PCR performance was observed after storage for 12 months at 4℃. Repeated freeze-thaw cycles do not impair PCR performance.

Before Starting

Prepare all components and get all necessary materials ready by examining this user manual and become familiar with each step and pay special attention to the followings.

Features

✪ Room temperature reaction set-up.

✪ Automatic hot start PCR.

✪ High sensitivity, high specificity, and high yield.

✪ Superior reliability and robustness.

✪ Convenient and time saving: ready-to-use and ready-to-load 2 x PCR Mix.

✪Ideal for everyday PCR.

Product Qualification

2 × Hot Start Taq PCR Mix is functionally tested for amplification of a 1 kb target with 50 ng of human genomic DNA.

Recommended PCR Reaction Protocol

The following protocol is suggested as a starting point.

Component	25 µL Reaction	50 µL Reaction	Final Concentration
2 × Taq Hot Start PCR Mix	12.5 µL	25 µL	1×
10 µM Forward Primer	0.5 µL	1.0 µL	0.2 µM (0.1–0.5 µM)
10 µM Reverse Primer	0.5 µL	1.0 µL	0.2 µM (0.1–0.5 µM)
Template DNA	Variable	Variable	Variable (fg-µg)
Nuclease-free water	Up to 25 µL	Up to 50 µL	

1. Assemble the reaction at room temperature.
2. Cap reaction vessels, gentle mix, and load into a thermal cycler.
3. Incubate tubes in thermal cycler at 94℃ for 1 to 2 minutes to completely denature the template.
4. Perform 25-40 cycles of PCR amplification as follows:

   Denature 94℃ for 15-30 s

   Anneal 55-60℃ for 15-30 s

   Extend 72℃ for 1 min per kb

   Final Extension 72℃ for 5 min

   Hold at 4℃ until use
5. Analyze PCR products by gel electrophoresis.

Limited Use and Warranty

This product is intended for *in vitro* research use only. Not for use in human.

This product is warranted to perform as described in its labeling and in BEIWO's literature when used in accordance with instructions. No other warranties of any kind expressed or implied, including, without limitation, implied warranties of merchantability or fitness for a particular purpose, are provided by BEIWO. BEIWO's sole obligation and purchaser's exclusive remedy for breach of this warranty shall be, at the option of BEIWO, to replace the products, BEIWO shall have no liability for any direct, indirect, consequential, or incidental damage arising out of the use, the results of use, or the inability to use it product.

For technical support or learn more product information, please contact us or visit our website.

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