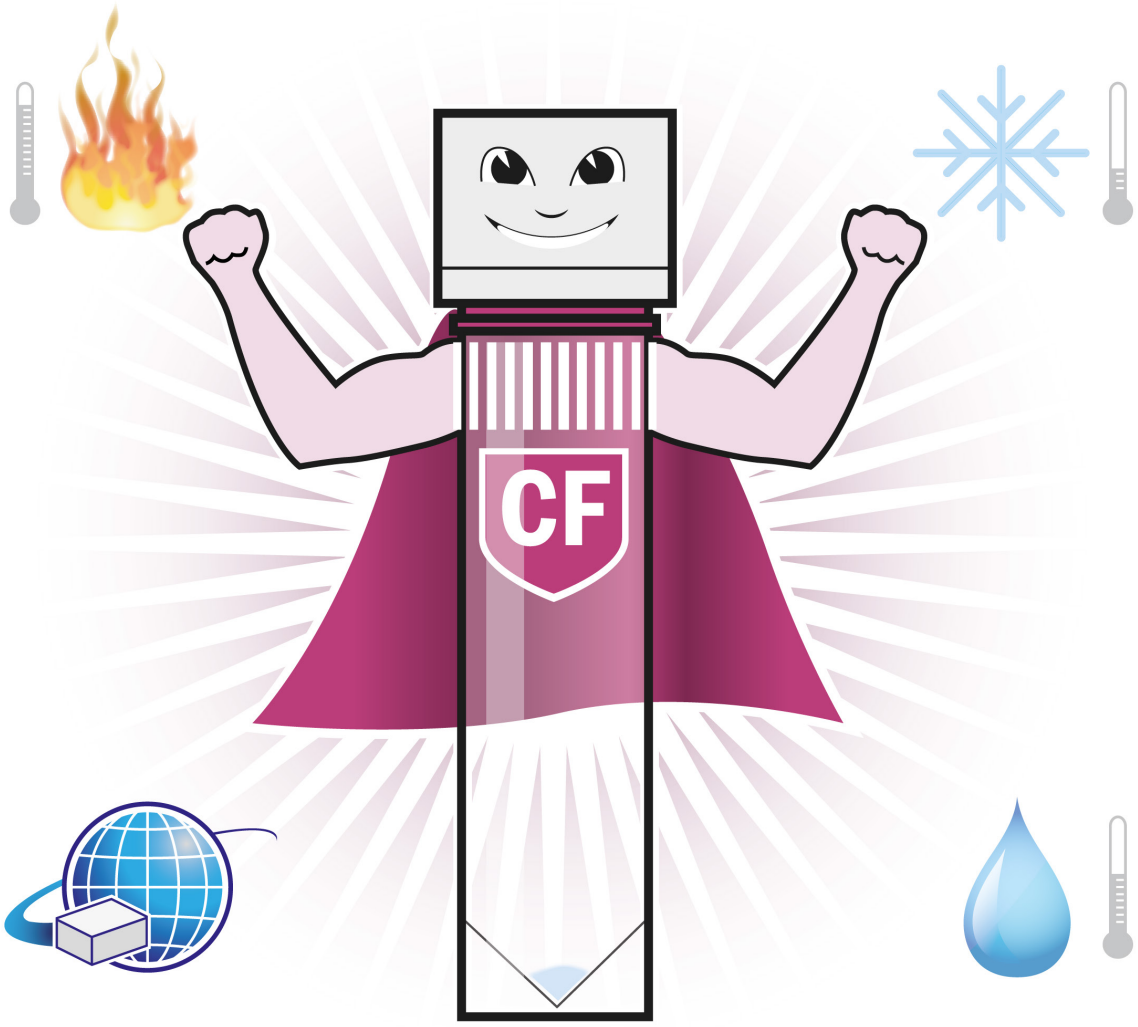
Universal PCR and qPCR Master Mix



- Universal PCR master mix for both conventional and qPCR
- Premixed, ready-to-use, lyophilized PCR master mix
- For a variety of DNA targets: plasmids, genomic, phage, and cDNA
- Thermostable at a wide temperature range and after several freeze/thaw cycles
- Minimal hands-on time and pipetting steps reducing risk of cross-contaminations
- Hot-Start functionality

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ConviFlex™ DNAmp Mix

Background

PCR amplification has become an indispensable method in every molecular biology lab. Usually, the necessary reaction components (buffer, dNTPs, $MgCl_2$, DNA polymerase) are sequentially added to prepare a mastermix, which is then aliquoted into individual reaction tubes. The subsequent inclusion of reaction-specific primers and template DNA prior to PCR adds further pipetting steps to the procedure, thereby increasing margin of error, risk of cross-contaminations, and work time.

Our ready-to-use and convenient ConviFlex™ DNAmp Mix is pre-mixed, freeze-dried, and optimized for efficient and reproducible PCR.

Description

Convenient and Easy-to-Use

ConviFlex™ DNAmp Mix is a ready-to-use PCR system. Once reconstituted, ConviFlex™ DNAmp Mix includes already all core components required for PCR amplification, except user-specific DNA template and primers. Due to the minimal number of pipetting steps to set up the PCR reaction, the application requires minimal hands-on time and reduces the risk of cross-contaminations.

Hot-Start Functionality

The hot-start functionality of the included Taq polymerase strongly suppresses the formation of unspecific PCR products and primer-dimers, resulting in PCR reactions with higher specificity, increased sensitivity and greater yields.

One Product - Many Applications

ConviFlex™ DNAmp Mix is compatible with both conventional PCR and qPCR (both SYBR® Green and TaqMan® based techniques), and is suitable for all regular PCR applications including PCR assays with complex genomic or cDNA templates, low copy number targets, high specificity PCR, T/A cloning, and multiplex PCR.

In-Use Stability

After rehydration, ConviFlex™ DNAmp Mix is stable even after several freeze/thaw cycles.

Recommended Use

ConviFlex™ DNAmp Mix can be used for PCR amplification of plasmid, genomic (both bacterial and mammalian) and phage target DNA. DNA may be extracted from diverse starting materials like cell culture supernatants, bacterial colonies, and mammalian cells and tissues.

ConviFlex™ DNAmp Mix is also suitable for PCR amplification using template DNA directly from cell culture supernatants or bacterial suspensions.

Features

Kit Components

ConviFlex™ DNAmp Mix (Hot-Start Taq polymerase and dNTPs)
Rehydration Buffer
$MgCl_2$ (100 mM) (Optional)

Storage and Shelf Life

Lyophilized ConviFlex™ DNAmp Mix and Rehydration Buffer should be stored at +2 - +8 °C. After rehydration, the ConviFlex™ DNAmp Mix should be stored at < -18 °C.

Required Consumables

Microcentrifuge vials (1.5 ml) and PCR tubes
PCR Grade Water
For qPCR: Fluorescent reporter probes

Required Lab Equipment

Microcentrifuge, Heat block, Pipetting equipment
PCR or qPCR thermocycler
For conventional PCR: agarose gel electrophoresis

Ordering Information

Cat. No. 191-0025	25 reactions
Cat. No. 191-0100	100 reactions
Cat. No. 191-0250	250 reactions

How to order

Phone: +1-908-524-4661
E-mail: order@minervabiolabs.us
Internet: www.minervabiolabs.us

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