

PCR Tailing Mix

Shipping: On Dry/Blue Ice

Catalog numbers

Exp. Date: See vial

BIO-21103 : 50 reactions

Batch No.: See vial



A Meridian Life Science® Company

Store at -20°C

Storage and stability:

The PCR Tailing Mix is shipped on Dry/Blue Ice and should be stored at -20°C upon receipt. Excessive freeze/thawing is not recommended. When stored under optimum conditions, the reagents are stable for a minimum of 12 months from date of purchase.

Safety precautions:

Harmful if swallowed. Irritating to eyes, respiratory system and skin. Please refer to the material safety data sheet for further information.

Notes:

MyTaq, ACCUZYME and VELOCITY are Trademarks of Bioline.
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Description

Proofreading DNA Polymerases such as VELOCITY provide high fidelity, however the resulting PCR product is blunt-ended. This is due to the 3'→5' exonuclease activity which removes the 3'-A overhangs normally added by *Taq* DNA polymerase. These 3'-A overhangs are very useful for efficient cloning of these fragments into suitable plasmids (TA cloning). The PCR Tailing Mix uses *Taq* DNA polymerase and an exonuclease inhibitor to add a single terminal A, whilst inhibiting the 3'→5' exonuclease activity of the proofreading DNA polymerase.

Features

- Fast addition of 3'-A overhang to blunt ended DNA
- Uses exonuclease inhibitor so no post PCR purification required

Applications

- TA cloning techniques where high fidelity is desirable

Components

Product Name	50 reactions
10x PCR Tailing mix	250µl

Kit compatibility

The PCR Tailing Mix can be used with any proofreading DNA polymerase that creates a blunt ended product.

General Considerations

The *Taq* 3'-A overextension reaction contains an exonuclease inhibitor, which reduces the 3'→5' exonuclease activity of the proofreading DNA polymerase, it is not therefore necessary to clean-up the PCR product before adding the PCR Tailing Mix.

Associated products

Product Name	Pack Size	Catalog No.
ACCUZYME™ DNA polymerase	250 Units	BIO-21051
MyTaq™ DNA polymerase	500 Units	BIO-21105
VELOCITY™ DNA polymerase	250 Units	BIO-21098
Quick-Stick Ligase	50 reactions	BIO-27027
α-Select Gold Efficiency Competent Cells	1ml	BIO-85027

PCR Tailing Protocol

Amplify DNA fragment with proofreading DNA polymerase in a 50µL reaction volume.

Following amplification add 5µL PCR Tailing Mix, at room temperature.

Incubate at 72°C for 5 minutes, and return to room temperature.

1µL reaction product can be used directly for ligation reaction with a TA cloning vector.

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