

ORDERING INFORMATION

CAT. NO.	SIZE	PACKAGE CONTENT
BR1101701	100 reactions	20X A-Tailing Mix 1 mM dATP 10X Activation Buffer

COMPONENT	COMPOSITION
20X A-Tailing Mix	Optimized 20X A-Tailing Mix contains Taq DNA polymerase
1 mM dATP	Aqueous solution (pH 7.0) of 1 mM 2'-deoxyadenosine 5'-triphosphate sodium salt
10X Activation Buffer	Optimized A-Tailing buffer in 10X concentration

STORAGE Store at -20 °C until expiry date.

FEATURES

- Optimized for efficient and consistent A-tailing reactions.
- Includes all necessary reagents for adding a single dA to the 3' ends of DNA fragments.
- High specificity and minimal background activity.
- Suitable for downstream applications like cloning, sequencing, and Next Generation Sequencing library preparation.

APPLICATIONS

- Preparation of DNA for cloning into T/A cloning vectors.
- Suitable for sequencing applications.
- Ideal for Next Generation Sequencing (NGS) library preparation.
- Compatible with a broad range of DNA templates.

DESCRIPTION

biotechrabbit™ A-Tailing Kit (Cat No. BR1101701) contains the essential reagents required for the addition of an adenine nucleotide to the 3' ends of DNA fragments. This kit includes a 20X A-Tailing Mix, a 1 mM dATP solution, and a 10X Activation Buffer. The reaction is designed to be performed in a single step and ensures a highly efficient A-tailing process, with minimal risk of overhang loss. The kit components are optimized to work together, providing consistent results with high specificity.

HANDLING

Purify your PCR product according to the manual of your PCR/Gel Clean-Up Kit.
biotechrabbit recommends GenUp™ PCR/Gel Cleanup Kit (BR0700501).

REACTION SETUP

Prepare the reaction mix according to the table below.

COMPONENT	VOLUME	FINAL CONCENTRATION
DNA sample	x μ L	100 – 500 ng
20X A-Tailing Mix	2.5 μ L	1X
1 mM dATP	10 μ L	0.2 mM
10X Activation Buffer	5 μ L	1X
Nuclease-free water	to 50 μ L	

Incubation

- Incubate the mixture at 72 °C for 15 – 30 minutes.
- Keep the above DNA fragment with additional A residue at 3' end at –20°C for later use

Downstream Application

- The A-tailed DNA is now ready for use in cloning, sequencing, or NGS library preparation.
- Proceed with your downstream applications according to the relevant protocols.

Storage of Reaction Products

- If not used immediately, store the reaction product at –20°C.

CERTIFICATE OF ANALYSIS

Quality Control

Functional assay

Product was functionally tested in the adenylation reaction of a blunt-ended DNA fragment. Presence of the A-tailed DNA fragment was confirmed using TA Cloning, followed by colony PCR.

Quality confirmed by: Head of Quality Control

SAFETY INSTRUCTIONS

For safety instructions please see Safety Data Sheets (SDS)

Sicherheitshinweise finden Sie in den Sicherheitsdatenblättern (SDB) unter
<http://www.biotechrabbit.com/support/documentation.html>

USEFUL HINTS

- Visit Applications at www.biotechrabbit.com for more products and product selection guides.
- Most biotechrabbit products are available in custom formulations and bulk amounts.
- In case any customization is required, please contact biotechrabbit via oem@biotechrabbit.com.

CONTACT BIOTECHRABBIT

biotechrabbit GmbH

Volmerstr. 9
12489 Berlin
Germany

info@biotechrabbit.com

support@biotechrabbit.com

www.biotechrabbit.com

Phone: +49 30 555 78 21 10

Fax: +49 30 555 78 21 99



Legal Disclaimer and Product Use Limitation

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valid from 01.10.2024

I. Type of document

- ☐ FOR
- ☒ PIN
- ☐ SDS
- ☐ KIT
- ☐ PRE
- ☐ HDO
- ☐ PTM
- ☐ COA
- ☐ TNG
- ☐ _____

II. Change history

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Version	Änderungsgrund	Änderung gültig ab	(Nach-) Schulung notwendig?	
			Ja	Nein
001	Frist release	01.10.2024		X

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III. Release

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Author	Date	Signature
Review	Date	Signature
Approval	Date	Signature