Jun 20, 2020

Protocol for Lambda Exonuclease (NEB #M0262)

New England Biolabs[1]

[1]New England Biolabs

1 *Works for me* This protocol is published without a DOI.

New England Biolabs (NEB)
Tech. support phone: **+1(800)632-7799** email: **info@neb.com**

New England Biolabs Tech Support
New England Biolabs

ABSTRACT

Lambda Exonuclease efficiently degrades 5' phosphorylated linear dsDNA from 5' to 3' direction, leaving supercoiled dsDNA intact.*

***Note:** For more precise results we recommend titration of the enzyme to the intended substrate.

EXTERNAL LINK

https://neb.com/protocols/2019/07/24/protocol-for-lambda-exonuclease-m0262

PROTOCOL CITATION

New England Biolabs 2020. Protocol for Lambda Exonuclease (NEB #M0262). **protocols.io** https://protocols.io/view/protocol-for-lambda-exonuclease-neb-m0262-7r5hm86

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CREATED

Sep 27, 2019

LAST MODIFIED

Jun 20, 2020

OWNERSHIP HISTORY

Sep 27, 2019 Anita Broellochs protocols.io

Jun 18, 2020 New England Biolabs Tech Support New England Biolabs

PROTOCOL INTEGER ID

28189

MATERIALS

NAME	CATALOG #	VENDOR
Lambda Exonuclease - 1,000 units	M0262S	New England Biolabs

SAFETY WARNINGS

Please see SDS (Safety Data Sheet) for hazards and safety warnings.

1

Set-up the reaction as follows:

Components	50 µl REACTION
DNA	up to 5 µg
Lambda Exonuclease Reaction Buffer (10X)	5 µl (1X)
Lambda Exonuclease	1 µl (5 units)
Nuclease-free H2O	up to 50 µl

2 

Incubate at **37 °C** for **00:30:00** .

3 Stop reaction by adding EDTA to **10 Milimolar (mM)** .

4 Heat Inactive at **75 °C** for **00:10:00** .

5 To clean up treated samples, we recommend using **one of the following steps**:

a. Column clean up (we recommend the Monarch® PCR & DNA Cleanup Kit, NEB #T1030) or

b. Running the reaction on an agarose gel, and then extracting the DNA (we recommend the Monarch Gel Extraction Kit, NEB #T1020), or

c. Performing a phenol/chloroform extraction followed by ethanol precipitation.