A&A BIOTECHNOLOGY
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*Manual*

# Exonuclease I

Recombinant enzyme that degrades single-stranded DNA in the 3'-5'. Concentration 5 U/µl.

| catalog # | size |
|---|---|
| 1020-1 | 1000 U |
| 1020-5 | 5000 U |

For research use only.

**Guarantee**

A&A Biotechnology provides guarantee on this product.
The company does not guarantee correct performance of this kit in the event of:

- not adhering to the supplied protocol
- use of not recommended equipment or materials
- use of other reagents than recommended or which are not a component of the product
- use of expired or improperly stored product or its components

# Description

**Exonuclease I** removal of nucleotides from ssDNA in the 3'-5' direction.

# Application

- removal of ssDNA with a hydroxyl group at the 3-end
- removing primer residues in the mixture after DNA amplification
- when used simultaneously with alkaline phosphatase, removes primers and nucleotides

# Contents

| | **1020-1** | **1020-50** | **storage** |
|---|---|---|---|
| **Exonuclease I** | 1000 U | 5000 U | -20 °C |
| storage buffer:<br>10 mM Tris-HCl, pH 7.5, 100 mM NaCl, 0,5 mM EDTA, 5 mM 2-mercaptoethanol, 100 µg/ml BSA, 50% glicerol (v/v) | | | |
| **Exonuclease reaction buffer** | 1.5 ml | 5 x 1.5 ml | -20 °C |
| 10x reaction buffer:<br>500 mM Tris-HCl, pH 8,0, 50 mM $MgCl_2$ | | | |

# Unit definition

1 U of enzyme catalysis the release of 10 nmole of acid-soluble nucleotide in 30 min at 37 °C under standard reaction conditions.

# Protocol

1. Thaw and mix all components and add:

| component | reaction volume<br>10 µl |
|---|---|
| **Exonuclease reaction buffer** | 1 µl |
| **Exonuclease I** | 1 µl |
| **DNA sample** | 1-8 µl |
| **Sterile water** | up to 10 µl |

2. Incubate for 30 min at 37 °C.
3. Enzyme inactivation: incubate for 20 min at 80 °C.

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