Exonuclease I (*E.coli*)

Cat. No. : RK20531

ABclonal Technology

Product Components

Components	Component Number	1,500 U	15,000 U
Exonuclease I (*E.coli*) (20,000 U/mL)	RM20519	75 μL	750 μL
10X Exonuclease I Reaction Buffer	RM20130	1.25 mL	3 × 1.25 mL

Product Description

Exonuclease I (*E. coli*) catalyzes the removal of nucleotides from single-stranded DNA in the 3' to 5' direction.

Exonuclease I degrades excess single-stranded primer oligonucleotides from a reaction mixture containing doublestranded extension products.

Product Source

An *E. coli* strain that carries the cloned Exo I gene from *E.coli* NM554.

Unit Definition

One unit is defined as the amount of enzyme that will catalyze the release of 10 nmol of acid-soluble nucleotide in a total reaction volume of 50 μL in 30 minutes at 37℃ in 1X Exonuclease I Reaction Buffer with 0.17 mg/ml single-stranded [^{3}H]-DNA.

Reaction Conditions

1X Exonuclease I Reaction Buffer; Incubate at 37℃

1X Exonuclease I Reaction Buffer

67 mM Glycine-KOH, 6.7 mM $MgCl_2$, 10 mM β-ME,
pH 9.5 @25℃

Storage Temperature

-20℃

Storage Conditions

10 mM Tris-HCl, 100 mM NaCl, 5 mM β-ME, 0.5 mM EDTA, 100 μg/ml BSA, 50% Glycerol, pH 7.5 @ 25℃.

Heat Inactivation

80℃ for 20 min

Instructions

Enzymatic PCR Cleanup Protocol

1. Add 0.5 μL of Exo I and 1 μL of rSAP to 5 μL of PCR product.
2. Incubate the mix at the 37℃ for 15 minutes.
3. Inactivate both enzymes at 80℃ for 15 minutes.
4. PCR products are ready for downstream application.

QC Process

- Purity is above 95% detected by SDS-PAGE.
- No endonucleases, non-specific DNase and other RNases contamination.
- No residual host genomic DNA detected by PCR.

E-mail: info@abclonal.com

For research purposes only. Not for therapeutic or diagnostic purposes.
Please visit www.abclonal.com for a complete listing of recommended products.