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Exonuclease I

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Exonuclease I catalyzes sequential removal of nucleotides from the 3' end of single-stranded DNA molecules.

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Exonuclease I is used to selectively digest excess single stranded DNA in a mixture also

containing double-stranded DNA, such as removing unused primers after PCR.

- 3'→5' single-stranded exonuclease.
- Monomeric 54.5 kDa bacterial exonuclease I recombinantly expressed in *E. coli*.
- Inactivated by heating at 80°C for 15 minutes.
- Active in PCR buffers.

Exonuclease I, used together with Alkaline Phosphatase (</shop/molecular-biology/pcr-and-amplification/gel-extraction-and-clean-up/illustra-shrimp-alkaline-phosphatase-p-00388>) for inactivation of dNTPs, provides effective cleanup of PCR reactions for subsequent use in DNA sequencing.

Digestion of single stranded DNA by Exonuclease I releases dNTPs leaving 5'-terminal dinucleotides intact. DNA strands with terminal 3'-OH groups blocked by phosphoryl or acetyl groups are not removed.

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Exonuclease I ▾

Parameter	Exonuclease I
Activity	10 units/ μ l
Purity	Free of contaminating endonucleases, double-stranded exonucleases and ribonucleases. Greater than 95% pure as determined by SDS-PAGE
Pack size	2500 units

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Product	Product Name	Pack Size ▾	Price	
E70073X	Exonuclease I	5000 units	727.00 USD	<div style="border: 1px solid green; padding: 2px; display: inline-block;">Add to cart ()</div>  Add to quote list Limited stock
E70073Z	Exonuclease I	2500 units	427.00 USD	<div style="border: 1px solid green; padding: 2px; display: inline-block;">Add to cart ()</div>  Add to quote list Stock on request

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