

# ExS-Pure™

*PCR cleanup kit*

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Rapid Single Tube  
enzymatic  
PCR clean up

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- ▶ 5 minute protocol
- ▶ Removes primers and dNTPs from PCR products
- ▶ Newest generation of heat-labile enzymes
- ▶ Add directly to your PCR product
- ▶ Easily incorporated in automated workflows
- ▶ 100% sample recovery

## Introduction

NimaGen's ExS-Pure™ Enzymatic PCR cleanup is designed for fast and easy PCR cleanup.

The reagent kit consists of two recombinant hydrolytic enzymes: Exonuclease-I and Shrimp Alkaline Phosphatase. Together they eliminate all unwanted dNTP's and residual primers from your PCR products, which would interfere with downstream applications, such as sequencing, SNP analysis, genotyping or cloning.

## Principle

Exonuclease I has a strong 3' to 5' exonuclease activity. When introduced to a reaction mixture at 37°C, it degrades single-stranded primer oligonucleotides while leaving the double-stranded PCR products unaffected. Shrimp Alkaline Phosphatase deactivates dNTPs, by removing 5'-phosphates. Both enzymes can be 100% inactivated by heating to 90°C for 1 minute. The combination of the two enzymes ensures complete dephosphorylation of dNTP's and degradation of residual primers, without the need of buffer change.

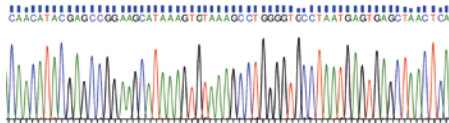
## Straightforward workflow

Minimal hands-on time: just add ExS-Pure™ to your PCR product and the cleanup is performed in a standard thermal cycler within 5 minutes.

## 100% Sample recovery

With ExS-Pure™ there is no need for time-consuming gel, column or magnetic bead

## High Sequence Quality after ExS-Pure Cleanup



Chromatogram shows a sample, sequenced with NimaGen's BrilliantDye v1.1 Cycle Sequencing kit and NimaPOP-7 polymer on a 3130 Genetic Analyzer

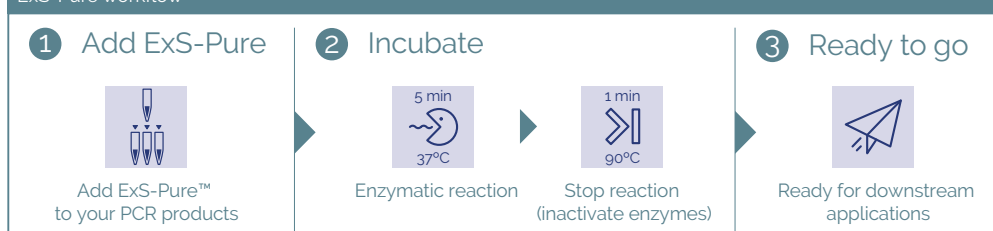
purifications. Both short and long stranded PCR products are left completely intact.

## Maximize your data quality from PCR products

DNA sequencing, SNP analysis and many other applications require PCR products which are free of dNTP's and primers. For DNA sequencing, unincorporated primers and dNTP's can lead to high background and miscalling of bases. With ExS-Pure you can efficiently remove these contaminants and make improvements in read length and base calling.

Name	Description	P/N
ExS-Pure™ PCR cleanup kt	100 rxn	EXS-100
ExS-Pure™ PCR cleanup kit	500 rxn	EXS-500
ExS-Pure™ PCR cleanup kit	5000 rxn	EXS-5000

### ExS-Pure workflow



## Product and Company Information

**Product name**  
ExS-Pure PCR cleanup kit  
**Product use**  
For Research Use Only

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